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VIA OVERNIGHT DELIVERY

July 12, 2004

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USEPA REGION V
Emergency Response Branch
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Marion, IL 62959

Mr. Steven Faryan
USEPA REGION V
Emergency Response Branch
HSE-5J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Clayton Project No. 15-03095.15-001

**Subject: ILR000128249 LPC 1190505040 – Madison County
The Hartford Area Hydrocarbon Plume Site / Hartford, Illinois
Sentinel Wells Quarterly Monitoring Report – April 2004**

Dear Messrs. Turner and Faryan:

Clayton Group Services, Inc., on behalf of the Hartford Working Group (HWG), and in accordance with paragraph 47 of the Administrative Order on Consent, is submitting the Sentinel Wells Quarterly Monitoring Report. This report presents the results of the first quarterly groundwater monitoring activities conducted in Hartford during the week of April 19, 2004.

Please contact me with any questions.

Sincerely,

A handwritten signature in black ink that reads "Monte M. Nienkerk".

Monte M. Nienkerk, P.G.
Senior Project Manager
Environmental Services

Enclosure: Sentinel Wells Quarterly Monitoring Report – April 2004

cc: Hartford Working Group
Robert Egan (USEPA, Region 5 – 1 copy)
Tom Binz (TT EMI / USEPA – 4 copies)
Robert Howe (TT EMI / USEPA – 1 copy)
Jim Moore (IEPA, Springfield – 3 copies)

Chris Cahnovsky (IEPA, Collinsville – 2 copies)
Dave Webb (Illinois DPH – 1 copy)

15-03095.10ca035 / MMN

Sentinel Wells Quarterly Monitoring Report April 2004

**The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois**

Prepared for:

The Hartford Working Group
Hartford, Illinois

Clayton Project Number 15-03095.15-001
July 12, 2004

Clayton Group Services, Inc.
3140 Finley Road
Downers Grove, Illinois 60515
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1.0 INTRODUCTION

Clayton Group Services, Inc., on behalf of The Hartford Working Group (HWG), has prepared this monitoring report for the five sentinel wells located within the Village of Hartford, IL (Figure 1). The work was done in accordance with the monitoring program developed under Paragraph 47 of the Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency in the Matter of The Hartford Area Hydrocarbon Plume Site (Docket No. R7003-5-04-001). Paragraph 47 of the AOC requires that the five sentinel wells be sampled quarterly for one year. After one year, a groundwater monitoring program will be established consistent with the results of the dissolved phase groundwater investigation. Paragraph 47 of the AOC also requires the work to be completed in accordance with the Sentinel Wells Work Plan, dated October 16, 2003, and approved by the United States Environmental Protection Agency (USEPA) on November 21, 2003. This report presents the results of the first quarterly groundwater monitoring activities conducted in Hartford during the week of April 19, 2004.

The five wells, HMW-25 through HMW-29, were installed to serve as sentinels for monitoring of the possible encroachment of the identified free-phase petroleum hydrocarbon (FPH) and dissolved phase plume, within the northern portion of the Village, upon the Hartford Well Head Protection Area (WHPA) (McGuire et al., 2001). The WHPA is the surface area near the two active Hartford municipal water supply wells that may provide recharge to the aquifer over a five-year period. The sentinel wells were placed at a distance that represents an approximate two-year travel time to the WHPA boundary (Clayton 2003). Figure 2 shows the location of the sentinel wells, the Hartford municipal water supply wells and the WHPA.

Clayton also completed a well gauging event in the Village during the week of April 19, 2004. The well gauging, with the cooperation of Shell Oil Products US (Shell) and The

Premcor Refining Group Inc. (Premcor), was extended to include the Shell Rand Avenue site, the Shell Tannery Property and the Premcor property.

2.0 WELL GAUGING

Clayton completed a comprehensive well gauging event in the Village during the week of April 19, 2004. This event was conducted at all of the remaining accessible monitoring wells in the Village that could be located by Clayton and also included the sentinel wells (HMW-25 through HMW-29). The sentinel wells were also inspected at this time to evaluate the continued suitability of the well for both gauging and groundwater monitoring. The well gauging, with the cooperation of Shell and Premcor, was extended to include the remaining accessible groundwater monitoring wells at the Shell Rand Avenue site and the Shell Tannery Property (Shell SP- and P-series wells) and those installed on the Premcor property (Premcor RB-series wells). The Shell Rand Avenue site is located immediately to the northeast and east of the north half of the Village while the Premcor facility is immediately east of the central portion of Hartford.

The hydrogeology of the vicinity of north Hartford consists of four hydrostratigraphic units, identified in descending order as the North Olive Stratum, the Rand Stratum and the EPA Stratum, all of which overlie the Main Sand (Clayton 2004a). At the time of this report, no existing wells are known to be appropriately screening the North Olive Stratum to enable gauging and the determination of groundwater flow (if any) within this stratum. Similarly, no existing wells within the Village are known to be appropriately screening the Rand Stratum to enable gauging and the determination of groundwater flow within this stratum in Hartford. The inclusion of the Shell wells provided gauging and groundwater flow data for the Rand (beyond the Hartford boundaries) and EPA Strata and additional data for the Main Sand. Likewise, the inclusion of the Premcor wells provided additional gauging and groundwater flow data for the Main Sand (beyond the Hartford

boundaries).

The well gauging event was conducted to identify the presence of FPH, measure apparent FPH thickness in wells (if any) and determine groundwater flow directions. The apparent product thickness (where present) measurements were also used in the calculation of the piezometric surface elevations. Groundwater and FPH gauging data in the Village of Hartford from April 2004 and prior data obtained in 2004 are summarized in Table 1. Tables 2 and 3 provide the results of the monitoring well gauging for the Shell wells and for the wells on the Premcor facility, respectively.

The results of the monitoring well inspections are included in Appendix A. The sentinel wells were determined to be in satisfactory condition for continued use in the monitoring program.

Groundwater flow maps were constructed for the April 2004 gauging event for three of the identified hydrostratigraphic units (Main Sand, EPA Stratum, and Rand Stratum). Clayton (2004a) presented the evaluation of wells appropriate for gauging each of these strata with the exception of newly installed multi-phase pilot test wells HMW-30 through 33 and RW-4. Based on the purpose and designed screened intervals (screening more than one hydrostratigraphic unit), these new wells are not appropriate for groundwater monitoring any of the identified hydrostratigraphic units. The flow maps are presented in Figures 3 through 5, respectively.

Clayton also completed an apparent product thickness evaluation during this gauging event. This information has been presented simply as a measurement of apparent FPH thickness (if any) at the wells (Tables 1 through 3). No FPH was detected in any Shell wells in the Rand and EPA Strata or the Main Sand. Therefore, one map was prepared of the FPH measured in wells screened in the EPA/Main Sand within the Village. This map,

presented in Figure 6, includes the EPA Stratum based on the limited areal extent of this stratum within the Village.

The April 2004 groundwater flow map of the Main Sand (Figure 3) indicates the flow direction is generally northerly to northwesterly. This flow direction is generally consistent with the January 2004 groundwater flow map of the Main Sand and historical interpretations provided by others. The April 2004 groundwater flow maps of both the EPA Stratum and the Rand Stratum are more limited based on the limited known areal extent of these respective strata.

The April 2004 groundwater flow map (Figure 4) of the EPA Stratum indicates a groundwater divide that trends along a northwest/southeast axis. The axis is located slightly east of the intersection of East Rand Avenue and North Olive Street. The flow to the northeast of this axis is northerly while the flow to the southwest of the axis is southwesterly. Evidence of this hinge was not apparent in the January 2004 groundwater flow map of the EPA Stratum. The southwesterly flow direction, southwest of the axis, is consistent with the January 2004 groundwater flow map of the EPA Stratum.

Groundwater flow direction in the EPA Stratum has been determined by others to be to the northeast the majority of the time, with episodic flow reversals to the southwest.

Additional data generated from the further investigative work being conducted will refine the understanding of groundwater flow and direction in the EPA Stratum.

The Rand Stratum (Figure 5) groundwater flow direction is generally northerly to northeasterly. The flow direction is consistent with the January 2004 groundwater flow map of the Rand Stratum.

3.0 GROUNDWATER SAMPLE COLLECTION

The sentinel well sampling was conducted on April 22, 2004. Groundwater samples were collected, in laboratory-supplied, pre-preserved (if appropriate) containers, using the low flow sampling technique (Clayton, 2004b) from the five sentinel monitoring wells (HMW-25 through HMW-29). Dedicated bladders and polypropylene tubing were used at each well during purging and sampling to prevent cross-contamination.

The low flow sampling technique resulted in the removal of approximately one gallon of water at each sentinel well prior to sample collection. The groundwater removed from each well was temporarily stored in a double-walled tank located in a secure area within the Village before removal by a waste disposal contractor. Water quality parameters of temperature, pH, oxidation reduction potential, dissolved oxygen, turbidity, and specific conductivity were electronically measured and recorded using a calibrated Mini-Troll with an associated Pocket PC (in addition to the field logbook) during purging and prior to sample collection. A copy of the downloaded data logger indicator parameter records for the April 2004 event is included in Appendix B.

The samples were collected directly from the low flow equipment into laboratory-supplied containers. After collection, samples were immediately labeled, placed in a cooler containing ice, and were delivered, under chain-of-custody procedures to Teklab, Inc. (Teklab) of Collinsville, Illinois, for laboratory analysis.

The samples were analyzed for the "Skinner List" as identified in the AOC. Specifically, the samples were analyzed for the following parameters: volatile organic compounds (VOCs) (including methyl tertiary butyl ether [MTBE] and ethylene dibromide [EDB]) using USEPA Methods 5030/8260B; 1,4-dioxane using USEPA Method 8015 modified; semi-volatile organic compounds (SVOCs) using USEPA Methods 3510C, 8270C;

metals using USEPA Methods 7470A; 3005A, 6010B; 3020A, 7041; 3020A, 7060A; 3020A, 7421; and 3020A, 7740; and cyanide using USEPA Method 9010, 9012A.

The "Skinner List" of parameters, the practical quantitation limits, and the analytical methods are presented in Table 4. The containers with applicable preservation requirements (if appropriate) for each parameter are presented in Table 5.

4.0 GROUNDWATER ANALYTICAL RESULTS

Sample analytical results from April 2004 indicate that groundwater samples from only two of the five sentinel wells contained parameters that are above the 35 Illinois Administrative Code (IAC) Part 742, Tiered Approach to Corrective Action Objectives (TACO). Specifically, only one parameter, lead, was detected above the TACO Tier 1 Class I Groundwater Remediation Objectives (GROs). The analytical results indicate that sentinel wells HMW-28 and HMW-29 contained lead at concentrations of 0.008 and 0.024 milligrams per liter (mg/L), respectively, which are above the TACO Class I GRO for lead of 0.0075 mg/L. In this sampling event, elevated reporting limits for seven of the SVOC parameters were reported due to an insufficient amount of water present in the samples. This is not believed to impact the conclusions of this report as no other VOC or SVOC parameters were detected above TACO Class I GROs. An evaluation of the Quality Assurance/Quality Control (QA/QC) samples from this sampling event did not reveal any concerns.

Sample analytical results from December 2003 indicate that a groundwater sample from only one of the five sentinel wells contained parameters above TACO. Specifically, only one parameter, lead, was detected above the TACO Class I GROs. The analytical results indicate that sentinel well HMW-26 contained lead at a concentration of 0.016 mg/L. An evaluation of the QA/QC samples from this sampling event did not reveal any concerns.

Based on the December 2003 and the April 2004 groundwater analytical results, the sentinel wells have not been impacted by the identified FPH plume underlying the northern portion of the Village of Hartford. This evaluation is based on the absence of concentrations of petroleum hydrocarbon constituents above applicable TACO Class I GROs, with the exception of one parameter (lead). It is also based upon the groundwater flow mapping that shows flow in the northern portion of Hartford is to the north, away from the Hartford WHPA and the Hartford municipal water supply wells. The identification of occasional lead exceedances in the sentinel wells is not considered to be an indication of impact from the FPH plume due to the sporadic nature and location of the occurrences in light of the long-term existence of the FPH plume. Furthermore, lead is often a naturally occurring constituent in groundwater.

Table 6 presents the laboratory analytical results for the April 2004 and the December 2003 sampling events. A copy of the April 2004 laboratory analytical report from Teklab is included in Appendix C.

5.0 FUTURE ACTIVITIES

As required by Paragraph 47 of the AOC, the next (second quarter) sampling event, to be scheduled during July 2004, will be conducted in accordance with the Sentinel Wells Work Plan, dated October 16, 2003, and approved by the USEPA on November 21, 2003. A comprehensive well gauging event will also be conducted for the Village, the Shell and the Premcor groundwater monitoring wells.

6.0 REFERENCES

Clayton Group Services, Inc., October 16, 2003. *Conceptual Site Model, Village of Hartford Work Plan*, Hartford, Illinois (aka *Sentinel Wells Work Plan*).

Clayton Group Services, Inc., April 8, 2004a. *FPH CPT/ROST™ Subsurface Investigation Report and FPH Monitoring Well and Soil Sampling Plan for the Village of Hartford, Illinois*.

Clayton Group Services, Inc., January 7, 2004b. *Investigation Plan to Define the Extent of Free Phase and Dissolved Phase Hydrocarbons in the Village of Hartford, Illinois*.

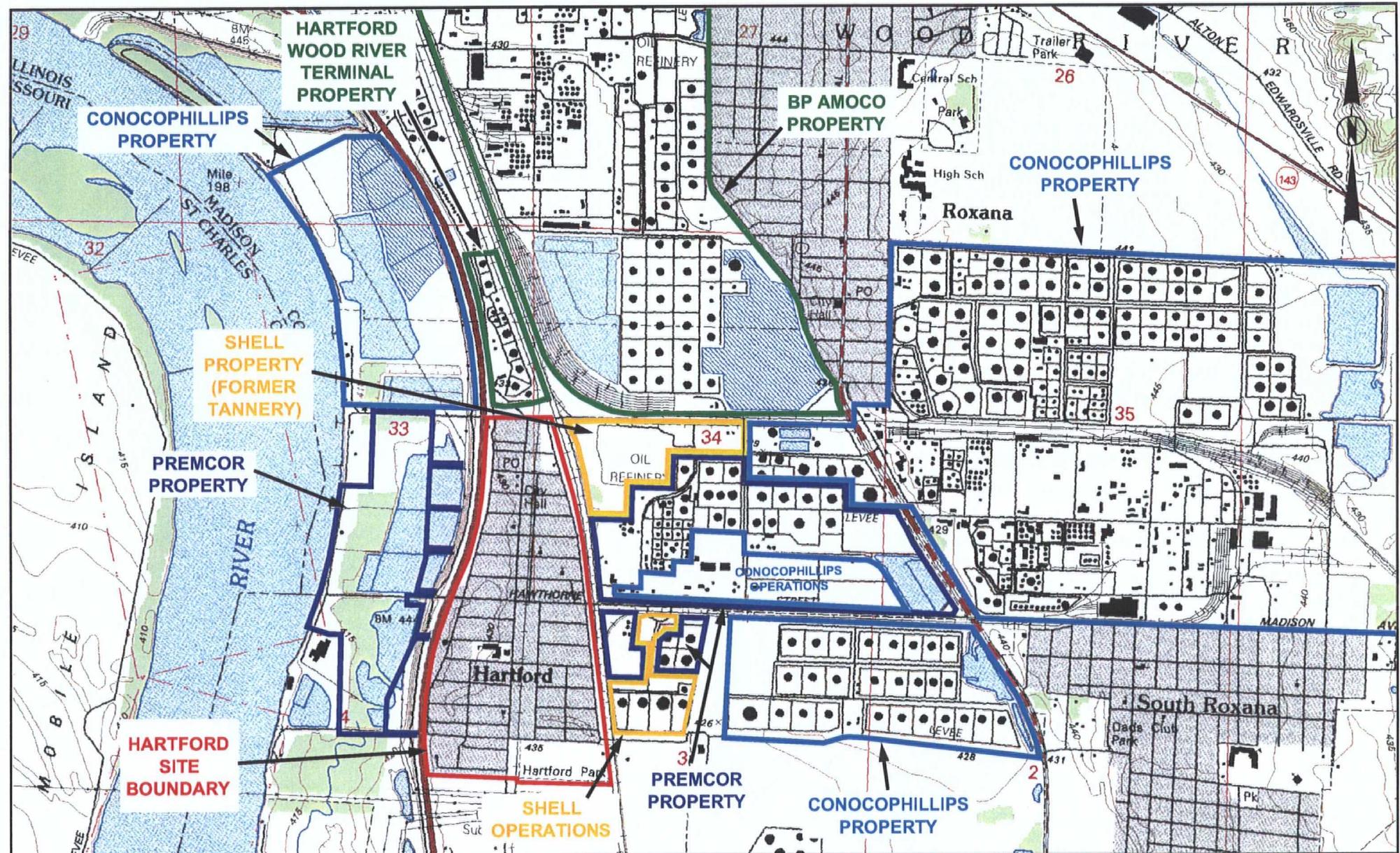
Illinois Pollution Control Board, 1997a. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742*. Adopted rule, Final Order June 5, 1997. Last amended February 2002.

McGuire, M., J. Keller, K. Miller, and S. Esling, 2001. *Delineation of a Well Head Protection Area Hartford, Illinois*

United States Environmental Protection Agency, Region 5, Chicago, Illinois. *In the Matter of the Hartford Area Hydrocarbon Plume Site*. (Docket No. R7003-5-04-001).

FIGURES

FIGURES



** NOT TO SCALE **

SOURCE:

USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP
(WOOD RIVER, ILL.-MO. - rev.1994)

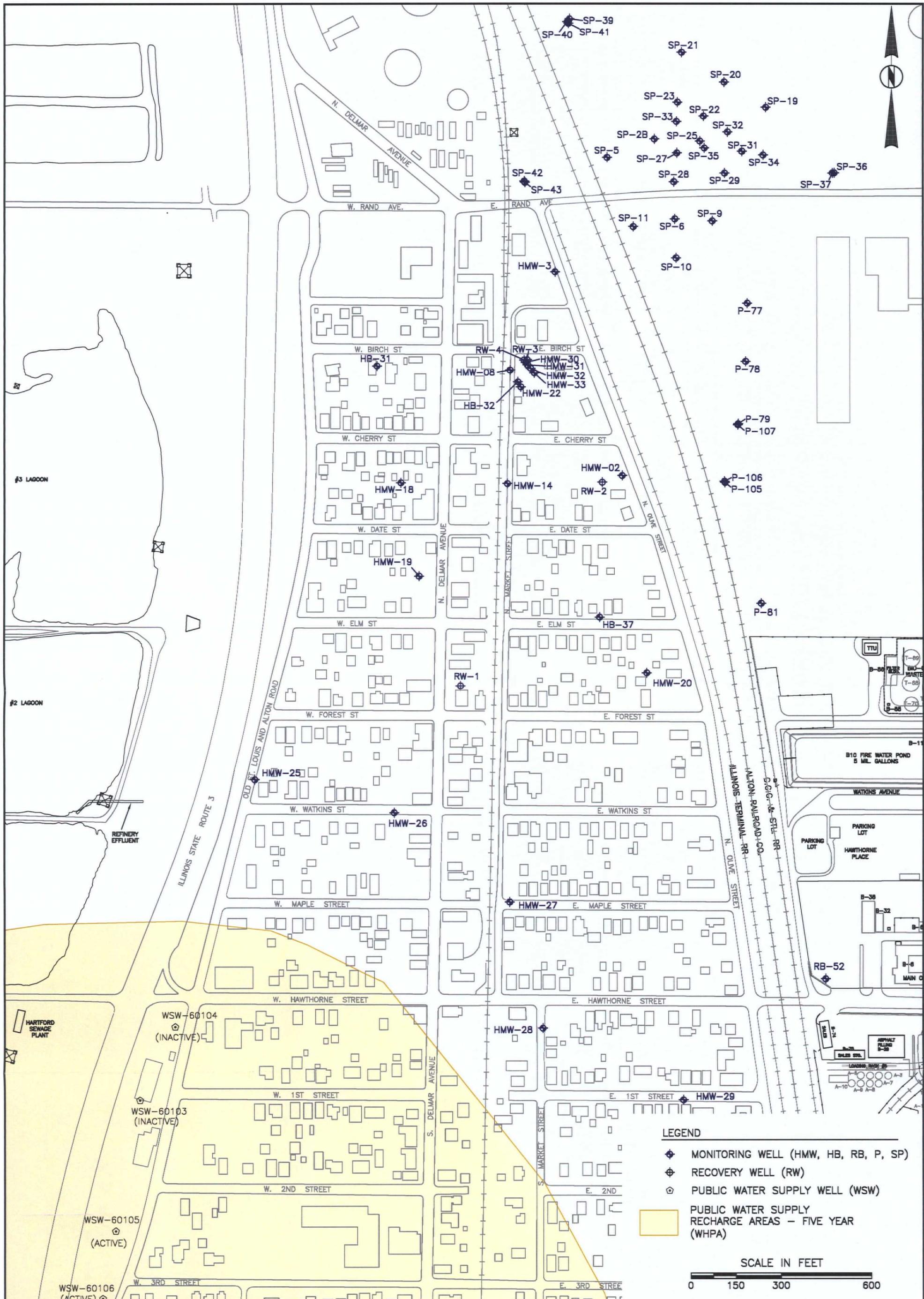
CHK BY	VILLAGE OF HARTFORD, IL AND SURROUNDING AREA MAP	
DWN BY	BCP	
DATE	6-23-04	
SCALE	AS SHOWN	
CAD NO.	0309512001B	
PRJ NO.	15-03095.12	

THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

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FIGURE





CHECK BY KDC
DRAWN BY BCP
DATE 6-23-04
SCALE AS SHOWN
CAD NO. 0309507e_
PRJ NO. 15-03095

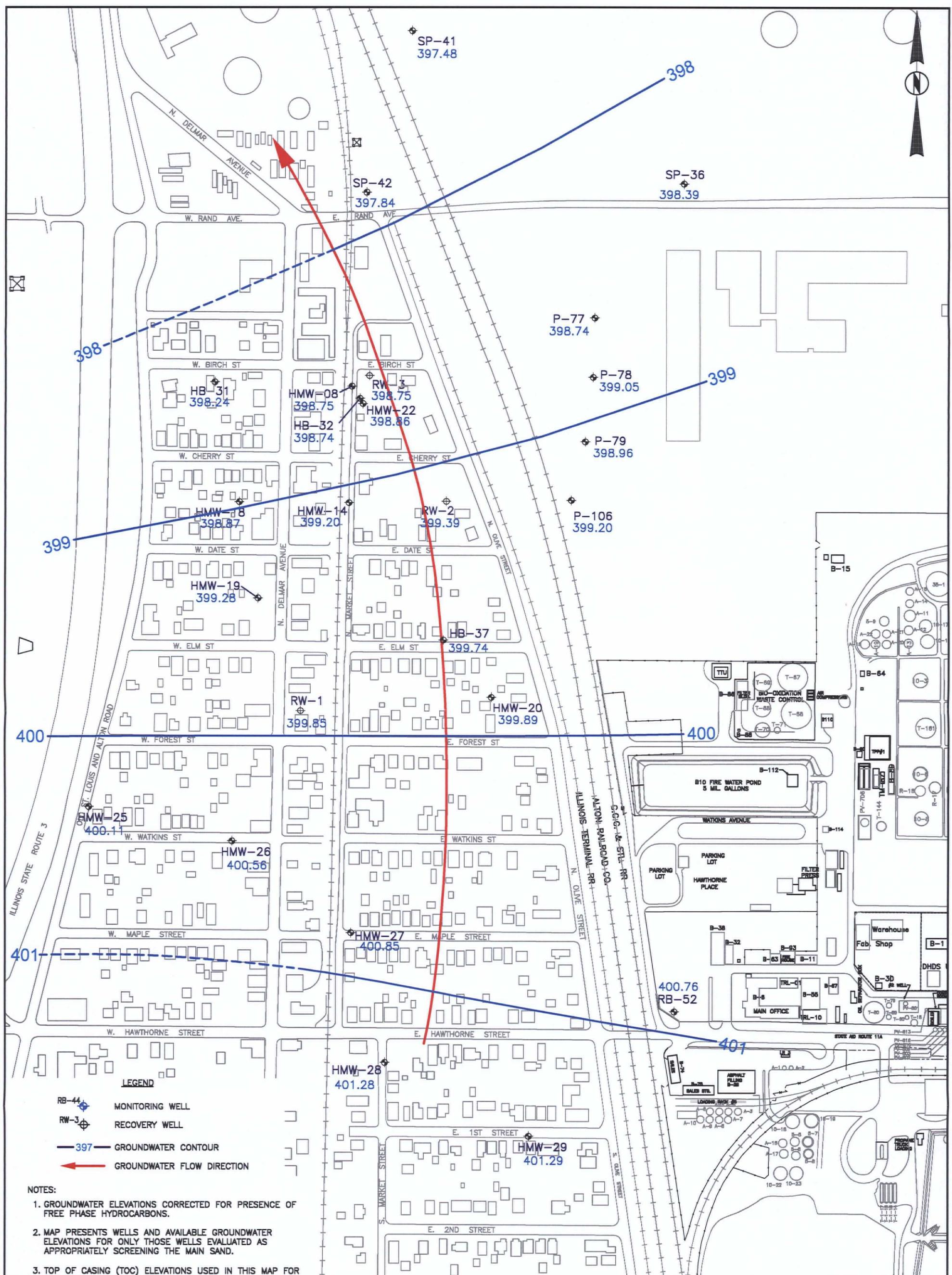
NORTH HARTFORD SITE MAP
VILLAGE OF HARTFORD, IL

THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

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FIGURE

2



NOTES:

1. GROUNDWATER ELEVATIONS CORRECTED FOR PRESENCE OF FREE PHASE HYDROCARBONS.
 2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE MAIN SAND.
 3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN DECEMBER 2003 AND JANUARY 2004. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.

CHECK BY KDC

DRAWN BY BCP

DATE 5-1-04

SCALE AS SHOWN

CAD NO. 0309507e1

GROUNDWATER FLOW MAP
APRIL 20-22, 2004
MAIN SAND

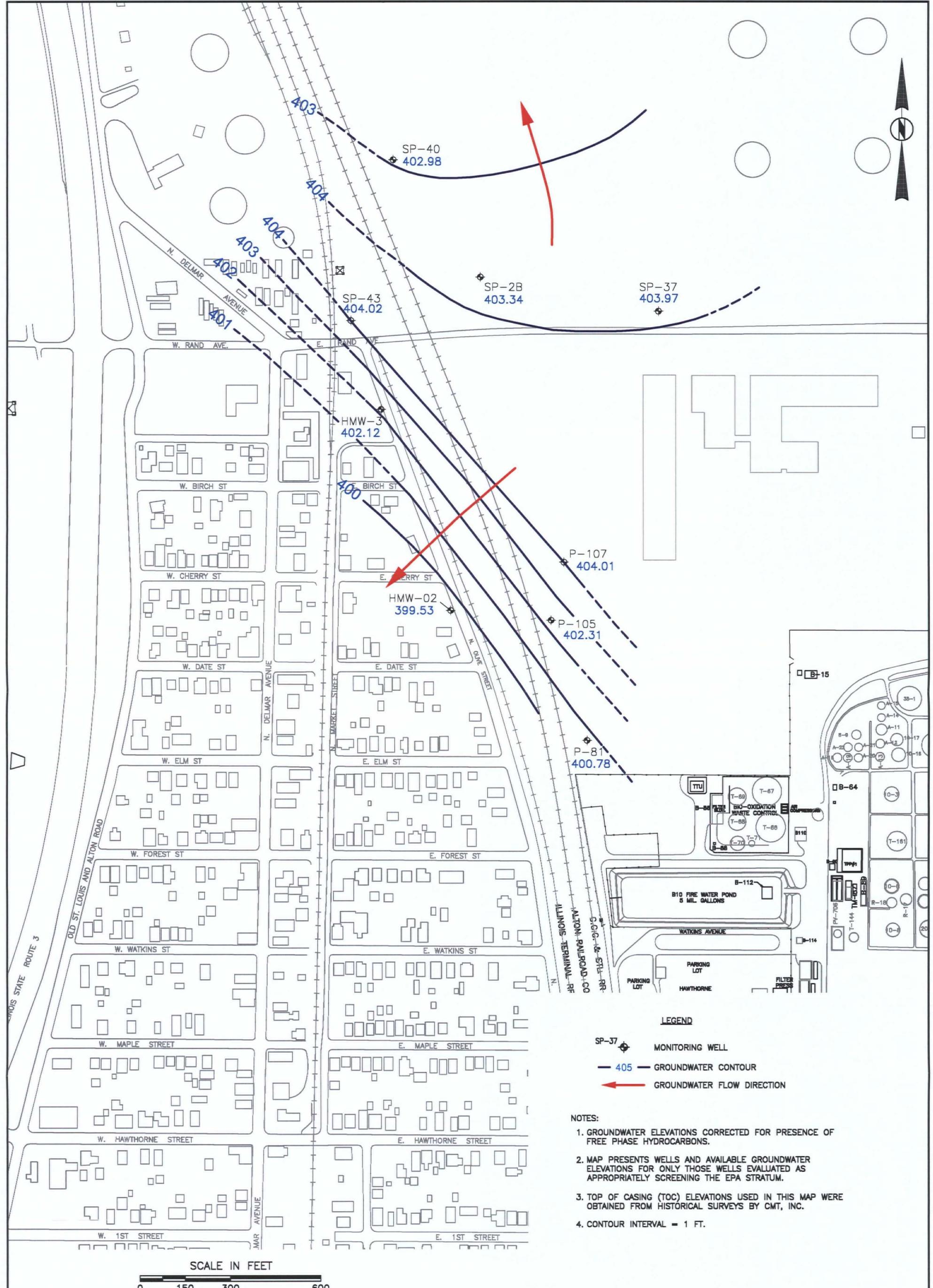
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS



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FIGURE

3



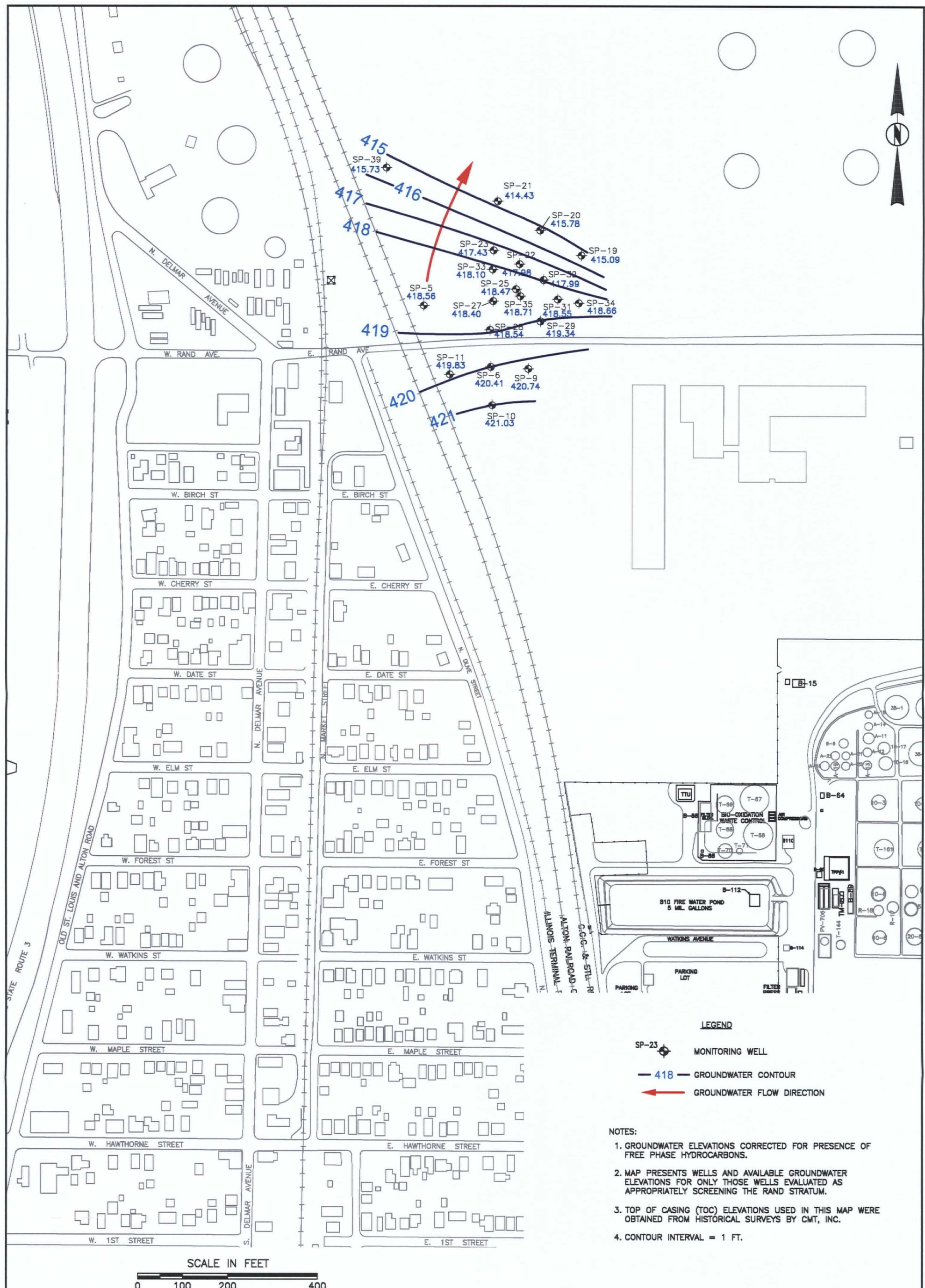
CHECK BY KDC
DRAWN BY BCP
DATE 4-28-04
SCALE AS SHOWN
CAD NO. 0309507e9
PRJ NO. 15-03095

GROUNDWATER FLOW MAP
APRIL 20-22, 2004 - EPA STRATUM

THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS



FIGURE



CHECK BY KDC

DRAWN BY BCP

DATE 4-29-04

SCALE AS SHOWN

CAD NO. 0309507e8

PRJ NO. 15-03095

GROUNDWATER FLOW MAP
APRIL 20-22, 2004 - RAND STRATUM

THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

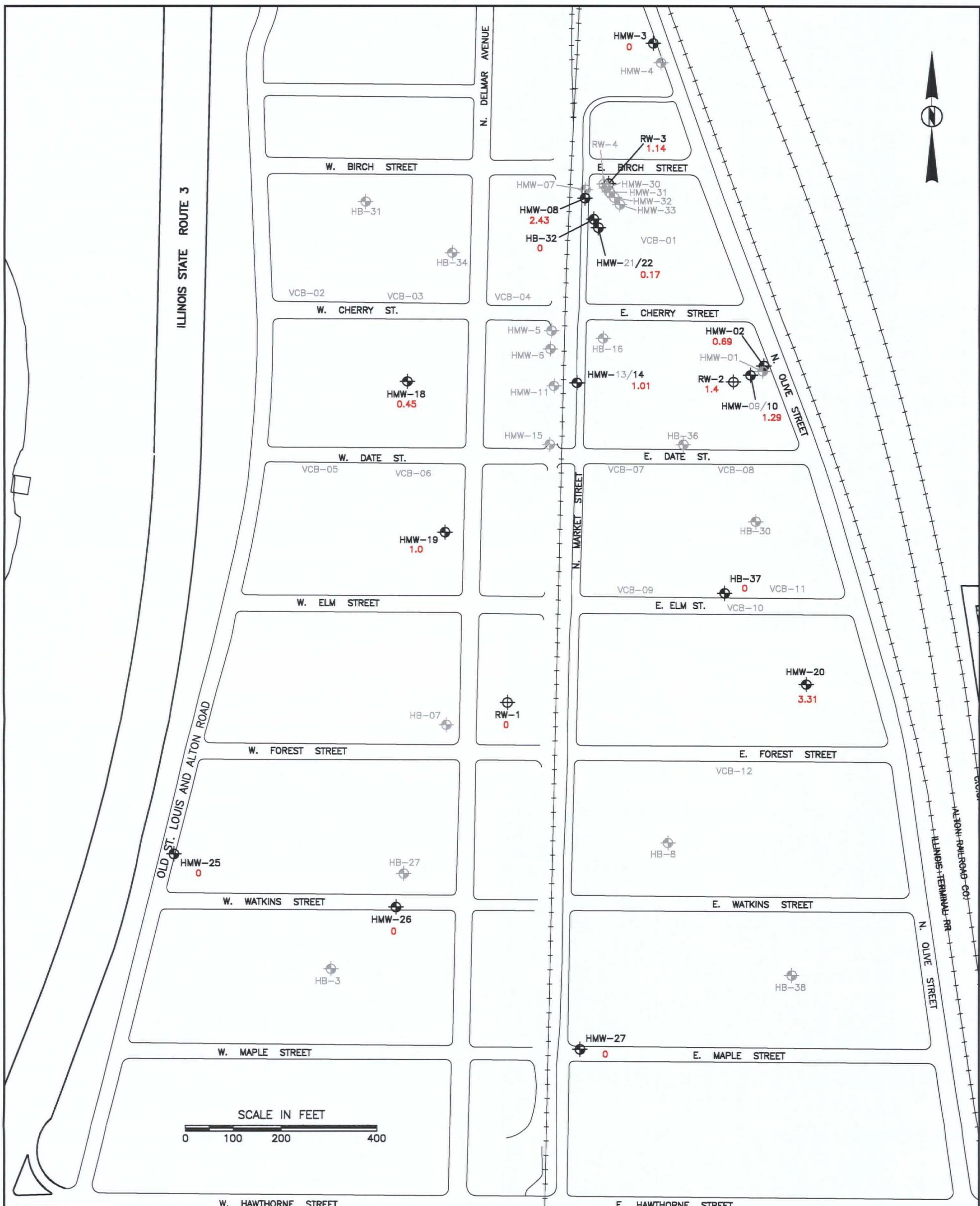


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FIGURE

5

- NOTES:
1. GROUNDWATER ELEVATIONS CORRECTED FOR PRESENCE OF FREE PHASE HYDROCARBONS.
 2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE RAND STRATUM.
 3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
 4. CONTOUR INTERVAL = 1 FT.



LEGEND

- 1.14 APPARENT PRODUCT THICKNESS (FEET)
- MP SOIL VAPOR MONITORING PROBE (MP)
- HMW MONITORING WELL (HMW, HB)
- VCB VAPOR CONTROL BORING (VCB)
- RW RECOVERY WELL (RW)

APPARENT FPH PRODUCT THICKNESS MAP
APRIL 20-22, 2004
MAIN/EPA SAND
VILLAGE OF HARTFORD
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

CHECK BY KDC
DRAWN BY BCP
DATE 4-30-04
SCALE AS SHOWN
CAD NO. 0309506m1
PRJ NO. 15-03095

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FIGURE

TABLES

TABLES

TABLES



TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
IEPA-4	02/09/04	430.35	32.74	34.12	397.61	396.23	1.38	397.29
	03/15/04	430.35	31.58	32.42	398.77	397.93	0.84	398.58
	04/20/04	430.35	30.35	31.71	400	398.64	1.36	399.69
HB-07 ²	01/27/04	432.32	--	--	--	--	--	--
	03/15/04	432.32	--	--	--	--	--	--
HB-16 ³	02/18/04	431.42	--	--	--	--	--	--
	04/20/04	431.42	32.15	32.86	399.27	398.56	0.71	399.11
HB-27 ²	02/18/04	425.83	--	--	--	--	--	--
HB-30	02/18/04	431.08	33.75	34.83	397.33	396.25	1.08	397.08
	04/20/04	431.08	31.03	32.25	400.05	398.83	1.22	399.77
HB-31 ³	01/27/04	431.49	NA	35.43	NA	396.06	0	396.06
	04/21/04	431.49	NA	33.25	NA	398.24	0	398.24
HB-32	01/27/04	433.33	NA	36.94	NA	396.39	0	396.39
	02/17/04	433.33	NA	37.62	NA	395.71	0	395.71
	02/18/04	433.33	NA	37.58	NA	395.75	0	395.75
	02/19/04	433.33	NA	37.42	NA	395.91	0	395.91
	03/05/04	433.33	NA	36.94	NA	396.39	0	396.39
	03/09/04	433.33	NA	35.97	NA	397.36	0	397.36
	03/15/04	433.33	NA	35.11	NA	398.22	0	398.22
	04/20/04	433.33	NA	34.59	NA	398.74	0	398.74
HB-33	02/09/04	430.23	NA	31.79	NA	398.44	0	398.44
	03/15/04	430.23	NA	30.46	NA	399.77	0	399.77
	04/21/04	430.23	NA	29.48	NA	400.75	0	400.75
HB-37	01/27/04	431.77	33.94	34.27	397.83	397.50	0.33	397.75
	03/15/04	431.77	33.00	33.01	398.77	398.76	0.01	398.77
	04/21/04	431.77	NA	32.03	NA	399.74	0	399.74
HB-38	02/18/04	429.92	NA	32.11	NA	397.81	0	397.81
	03/15/04	429.92	NA	30.44	NA	399.48	0	399.48
	04/21/04	429.92	NA	29.36	NA	400.56	0	400.56

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
HMW-1	01/27/04	429.97	NA	19.78	NA	410.19	0	410.19
	02/03/04	429.97	NA	20.10	NA	409.87	0	409.87
	02/16/04	429.97	NA	20.07	NA	409.90	0	409.90
	02/17/04	429.97	--	--	--	--	--	--
	02/19/04	429.97	NA	20.02	NA	409.95	0	409.95
	02/24/04	429.97	NA	20.31	NA	409.66	0	409.66
	03/05/04	429.97	NA	19.95	NA	410.02	0	410.02
	03/15/04	429.97	NA	19.15	NA	410.82	0	410.82
	04/20/04	429.97	NA	19.50	NA	410.47	0	410.47
HMW-02	01/27/04	429.65	32.11	32.88	397.54	396.77	0.77	397.36
	02/03/04	429.65	32.30	33.28	397.35	396.37	0.98	397.12
	02/16/04	429.65	32.51	34.11	397.14	395.54	1.6	396.77
	02/17/04	429.65	32.56	34.14	397.09	395.51	1.58	396.73
	02/18/04	429.65	32.51	34.15	397.14	395.50	1.64	396.76
	02/19/04	429.65	32.41	34.07	397.24	395.58	1.66	396.86
	02/24/04	429.65	32.57	34.26	397.08	395.39	1.69	396.69
	02/27/04	429.65	32.48	33.99	397.17	395.66	1.51	396.82
	03/01/04	429.65	32.34	33.38	397.31	396.27	1.04	397.07
	03/02/04	429.65	32.48	33.70	397.17	395.95	1.22	396.89
	03/03/04	429.65	32.48	33.75	397.17	395.90	1.27	396.88
	03/04/04	429.65	32.23	33.31	397.42	396.34	1.08	397.17
	03/05/04	429.65	32.35	33.19	397.3	396.46	0.84	397.11
	03/08/04	429.65	31.98	32.52	397.67	397.13	0.54	397.55
	03/09/04	429.65	31.90	32.45	397.75	397.20	0.55	397.62
	03/15/04	429.65	31.03	31.58	398.62	398.07	0.55	398.49
	03/16/04	429.65	30.91	31.46	398.74	398.19	0.55	398.61
	03/17/04	429.65	30.88	31.42	398.77	398.23	0.54	398.65
	03/18/04	429.65	30.88	31.44	398.77	398.21	0.56	398.64
	03/19/04	429.65	30.48	31.50	399.17	398.15	1.02	398.94

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
HMW-02	03/23/04	429.65	30.80	31.31	398.85	398.34	0.51	398.73
	03/24/04	429.65	30.77	31.32	398.88	398.33	0.55	398.75
	03/30/04	429.65	30.55	31.10	399.1	398.55	0.55	398.97
	03/31/04	429.65	30.47	31.01	399.18	398.64	0.54	399.06
	04/01/04	429.65	30.29	30.91	399.36	398.74	0.62	399.22
	04/20/04	429.65	29.96	30.65	399.69	399.00	0.69	399.53
HMW-03	01/27/04	428.72	NA	28.61	NA	400.11	0	400.11
	03/09/04	428.72	NA	29.43	NA	399.29	0	399.29
	03/15/04	428.72	NA	28.03	NA	400.69	0	400.69
	04/20/04	428.72	NA	26.60	NA	402.12	0	402.12
HMW-04	01/27/04	428.96	10.93	10.94	418.03	418.02	0.01	418.03
	03/09/04	428.96	NA	11.20	NA	417.76	0	417.76
	03/15/04	428.96	NA	11.00	NA	417.96	0	417.96
	04/20/04	428.96	NA	12.01	NA	416.95	0	416.95
HMW-07	01/27/04	429.12	NA	24.76	NA	404.36	0	404.36
	02/17/04	429.12	NA	24.94	NA	404.18	0	404.18
	02/19/04	429.12	NA	24.86	NA	404.26	0	404.26
	03/15/04	429.12	NA	24.68	NA	404.44	0	404.44
	04/20/04	429.12	NA	24.49	NA	404.63	0	404.63
HMW-08	01/27/04	429.74	32.85	34.15	396.89	395.59	1.3	396.59
	02/19/04	429.74	33.21	35.71	396.53	394.03	2.5	395.96
	03/04/04	429.74	32.85	34.41	396.89	395.33	1.56	396.53
	03/05/04	429.74	33.01	34.30	396.73	395.44	1.29	396.43
	03/08/04	429.74	32.20	33.27	397.54	396.47	1.07	397.29
	03/09/04	429.74	32.10	33.01	397.64	396.73	0.91	397.43
	03/15/04	429.74	31.12	32.72	398.62	397.02	1.6	398.25
	04/20/04	429.74	30.43	32.86	399.31	396.88	2.43	398.75
HMW-09	01/27/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/03/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
HMW-09	02/16/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/17/04	430.23	--	--	--	--	--	--
	02/19/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/24/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	03/08/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
HMW-10	01/27/04	430.20	32.57	34.17	397.63	396.03	1.60	397.26
	02/03/04	430.20	32.78	34.68	397.42	395.52	1.90	396.98
	02/16/04	430.20	33.11	35.18	397.09	395.02	2.07	396.61
	02/17/04	430.20	33.13	35.26	397.07	394.94	2.13	396.58
	02/18/04	430.20	33.11	35.17	397.09	395.03	2.06	396.62
	02/19/04	430.20	33.00	35.03	397.2	395.17	2.03	396.73
	02/24/04	430.20	32.16	35.24	398.04	394.96	3.08	397.33
	02/27/04	430.20	33.05	34.86	397.15	395.34	1.81	396.73
	03/01/04	430.20	32.88	34.21	397.32	395.99	1.33	397.01
	03/02/04	430.20	33.05	34.61	397.15	395.59	1.56	396.79
	03/03/04	430.20	33.03	34.52	397.17	395.68	1.49	396.83
	03/04/04	430.20	32.80	33.91	397.4	396.29	1.11	397.14
	03/05/04	430.20	32.78	33.93	397.42	396.27	1.15	397.16
	03/08/04	430.20	32.42	33.37	397.78	396.83	0.95	397.56
	03/09/04	430.20	32.30	33.23	397.9	396.97	0.93	397.69
	03/15/04	430.20	31.52	32.10	398.68	398.10	0.58	398.55
	03/16/04	430.20	31.41	32.07	398.79	398.13	0.66	398.64
	03/17/04	430.20	31.40	32.07	398.8	398.13	0.67	398.65
	03/18/04	430.20	31.42	32.14	398.78	398.06	0.72	398.61
	03/19/04	430.20	31.51	32.18	398.69	398.02	0.67	398.54
	03/23/04	430.20	31.34	32.08	398.86	398.12	0.74	398.69
	03/24/04	430.20	31.32	32.14	398.88	398.06	0.82	398.69

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
HMW-10	03/30/04	430.20	31.09	31.75	399.11	398.45	0.66	398.96
	03/31/04	430.20	31.01	31.74	399.19	398.46	0.73	399.02
	04/01/04	430.20	30.84	31.59	399.36	398.61	0.75	399.19
	04/20/04	430.20	30.47	31.76	399.73	398.44	1.29	399.43
HMW-13	01/27/04	430.81	NA	18.67	NA	412.14	0	412.14
	02/03/04	430.81	NA	18.69	NA	412.12	0	412.12
	02/16/04	430.81	NA	18.68	NA	412.13	0	412.13
	02/17/04	430.81	--	--	--	--	--	--
	02/19/04	430.81	NA	18.71	NA	412.10	0	412.10
	03/15/04	430.81	NA	18.71	NA	412.10	0	412.10
	04/20/04	430.81	NA	18.70	NA	412.11	0	412.11
HMW-14	01/27/04	430.86	33.63	34.96	397.23	395.90	1.33	396.92
	02/03/04	430.86	33.80	35.70	397.06	395.16	1.90	396.62
	02/16/04	430.86	34.21	36.02	396.65	394.84	1.81	396.23
	02/17/04	430.86	--	--	--	--	--	--
	02/19/04	430.86	34.11	36.00	396.75	394.86	1.89	396.32
	03/04/04	430.86	33.75	34.75	397.11	396.11	1.00	396.88
	03/08/04	430.86	33.35	33.49	397.51	397.37	0.14	397.48
	03/15/04	430.86	32.18	32.42	398.68	398.44	0.24	398.62
	03/18/04	430.86	32.12	32.58	398.74	398.28	0.46	398.63
	03/19/04	430.86	32.21	32.72	398.65	398.14	0.51	398.53
	03/30/04	430.86	31.81	32.20	399.05	398.66	0.39	398.96
	03/31/04	430.86	31.55	31.94	399.31	398.92	0.39	399.22
	04/20/04	430.86	31.43	32.44	399.43	398.42	1.01	399.20
	01/27/04	431.58	34.55	36.12	397.03	395.46	1.57	396.67
	03/15/04	431.58	33.11	34.04	398.47	397.54	0.93	398.26
	04/21/04	431.58	32.61	33.06	398.97	398.52	0.45	398.87
HMW-19	01/27/04	431.80	34.90	35.72	396.9	396.08	0.82	396.71
	03/15/04	431.80	33.09	33.09	398.71	398.71	0	398.71

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
HMW-19	04/21/04	431.80	32.29	33.29	399.51	398.51	1.00	399.28
HMW-20	01/27/04	430.65	32.91	33.86	397.74	396.79	0.95	397.52
	03/15/04	430.65	31.24	32.88	399.41	397.77	1.64	399.03
	04/21/04	430.65	30	33.31	400.65	397.34	3.31	399.89
	01/27/04	430.05	NA	21.93	NA	408.12	0	408.12
HMW-21	02/17/04	430.05	NA	22.06	NA	407.99	0	407.99
	02/19/04	430.05	NA	22.00	NA	408.05	0	408.05
	03/15/04	430.05	NA	21.70	NA	408.35	0	408.35
	04/20/04	430.05	NA	21.42	NA	408.63	0	408.63
	01/27/04	430.15	33.20	35.00	396.95	395.15	1.80	396.54
HMW-22	02/17/04	430.15	33.70	36.42	396.45	393.73	2.72	395.82
	02/18/04	430.15	33.70	36.36	396.45	393.79	2.66	395.84
	02/19/04	430.15	33.51	36.24	396.64	393.91	2.73	396.01
	03/05/04	430.15	33.38	34.92	396.77	395.23	1.54	396.42
	03/08/04	430.15	32.64	33.48	397.51	396.67	0.84	397.32
	03/09/04	430.15	32.54	33.26	397.61	396.89	0.72	397.44
	03/15/04	430.15	31.59	32.74	398.56	397.41	1.15	398.30
	04/20/04	430.15	31.25	31.42	398.9	398.73	0.17	398.86
	01/27/04	427.45	NA	29.96	NA	397.49	0	397.49
HMW-25	03/15/04	427.45	NA	27.31	NA	400.14	0	400.14
	04/21/04	427.45	NA	27.34	NA	400.11	0	400.11
	01/27/04	425.20	NA	27.15	NA	398.05	0	398.05
HMW-26	03/15/04	425.20	NA	26.03	NA	399.17	0	399.17
	04/21/04	425.20	NA	24.64	NA	400.56	0	400.56
	01/27/04	430.75	NA	32.21	NA	398.54	0	398.54
HMW-27	03/15/04 ⁴	430.75	NA	31.38	NA	399.37	0	399.37
	04/22/04	430.75	NA	29.90	NA	400.85	0	400.85
	01/27/04	430.97	NA	32.05	NA	398.92	0	398.92
HMW-28	03/15/04	430.97	NA	30.58	NA	400.39	0	400.39

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
HMW-28	04/21/04	430.97	NA	29.69	NA	401.28	0	401.28
HMW-29	01/27/04	429.99	NA	30.64	NA	399.35	0	399.35
	03/15/04	429.99	NA	30.12	NA	399.87	0	399.87
	04/21/04	429.99	NA	28.70	NA	401.29	0	401.29
	04/20/04	430.07	NA	31.29	NA	398.78	0	398.78
HMW-31	04/20/04	430.09	NA	31.27	NA	398.82	0	398.82
HMW-32	04/20/04	430.01	NA	31.11	NA	398.90	0	398.90
HMW-33	04/20/04	430.13	NA	31.27	NA	398.86	0	398.86
RW-1	01/27/04	433.78	NA	36.18	NA	397.60	0	397.60
	03/15/04	433.78	NA	34.72	NA	399.06	0	399.06
	04/21/04	433.78	NA	33.93	NA	399.85	0	399.85
RW-2	01/27/04	431.99	34.39	35.95	397.60	396.04	1.56	397.24
	02/03/04	431.99	34.60	36.35	397.39	395.64	1.75	396.99
	02/16/04	431.99	34.91	37.00	397.08	394.99	2.09	396.60
	02/17/04	431.99	35.12	36.61	396.87	395.38	1.49	396.53
	02/18/04	431.99	35.07	36.59	396.92	395.40	1.52	396.57
	02/19/04	431.99	34.97	36.33	397.02	395.66	1.36	396.71
	02/23/04	431.99	35.16	36.32	396.83	395.67	1.16	396.56
	02/24/04	431.99	35.21	36.22	396.78	395.77	1.01	396.55
	02/27/04	431.99	34.90	36.31	397.09	395.68	1.41	396.77
	03/01/04	431.99	34.80	35.58	397.19	396.41	0.78	397.01
	03/02/04	431.99	35.21	35.44	396.78	396.55	0.23	396.73
	03/03/04	431.99	35.14	35.37	396.85	396.62	0.23	396.80
	03/04/04	431.99	34.60	35.50	397.39	396.49	0.90	397.18
	03/05/04	431.99	34.79	35.17	397.20	396.82	0.38	397.11
	03/08/04	431.99	34.40	34.61	397.59	397.38	0.21	397.54
	03/09/04	431.99	34.24	34.61	397.75	397.38	0.37	397.66
	03/11/04	431.99	33.77	34.02	398.22	397.97	0.25	398.16

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RW-2	03/15/04	431.99	33.37	33.50	398.62	398.49	0.13	398.59
	03/16/04	431.99	33.27	33.41	398.72	398.58	0.14	398.69
	03/17/04	431.99	33.21	33.58	398.78	398.41	0.37	398.69
	03/18/04	431.99	33.31	33.35	398.68	398.64	0.04	398.67
	03/19/04	431.99	33.40	33.61	398.59	398.38	0.21	398.54
	03/23/04	431.99	33.25	33.27	398.74	398.72	0.02	398.74
	03/24/04	431.99	33.28	33.32	398.71	398.67	0.04	398.70
	03/30/04	431.99	32.89	33.29	399.10	398.70	0.40	399.01
	03/31/04	431.99	32.89	33.14	399.10	398.85	0.25	399.04
	04/01/04	431.99	32.67	33.24	399.32	398.75	0.57	399.19
	04/20/04	431.99	32.28	33.68	399.71	398.31	1.40	399.39
RW-3	01/27/04	433.35	36.46	38.30	396.89	395.05	1.84	396.47
	02/03/04	433.35	36.82	38.54	396.53	394.81	1.72	396.13
	02/17/04	433.35	37.16	39.03	396.19	394.32	1.87	395.76
	02/18/04	433.35	37.50	37.71	395.85	395.64	0.21	395.80
	02/19/04	433.35	37.32	37.51	396.03	395.84	0.19	395.99
	02/24/04	433.35	37.31	37.89	396.04	395.46	0.58	395.91
	03/05/04	433.35	36.61	38.11	396.74	395.24	1.50	396.40
	03/08/04	433.35	35.95	36.28	397.40	397.07	0.33	397.32
	03/15/04	433.35	35.06	35.22	398.29	398.13	0.16	398.25
	04/20/04	433.35	34.34	35.48	399.01	397.87	1.14	398.75
RW-4	04/20/04	429.65	--	--	--	--	--	--
MP-5S	01/27/04	429.83	NA	9.26	NA	420.57	0	420.57
	03/15/04	429.83	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	429.83	DRY	DRY	DRY	DRY	DRY	DRY
MP-5D	01/27/04	430.09	NA	21.33	NA	408.76	0	408.76
	03/15/04	430.09	NA	20.63	NA	409.46	0	409.46

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
MP-5D	04/20/04	430.09	NA	20.38	NA	409.71	0	409.71
MP-6S	01/27/04	430.15	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	430.15	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.15	DRY	DRY	DRY	DRY	DRY	DRY
MP-6D	01/27/04	430.13	NA	21.31	NA	408.82	0	408.82
	03/15/04	430.13	NA	20.70	NA	409.43	0	409.43
	04/20/04	430.13	NA	20.40	NA	409.73	0	409.73
MP-7S	01/27/04	430.17	NA	7.21	NA	422.96	0	422.96
	03/15/04	430.17	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.17	NA	5.41	NA	424.76	0	424.76
MP-7D	01/27/04	430.16	NA	21.38	NA	408.78	0	408.78
	03/15/04	430.16	NA	20.78	NA	409.38	0	409.38
	04/20/04	430.16	NA	20.64	NA	409.52	0	409.52
MP-8S	01/27/04	430.20	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	430.20	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.20	DRY	DRY	DRY	DRY	DRY	DRY
MP-8D	01/27/04	430.14	22.29	22.32	407.85	407.82	0.03	407.84
	03/15/04	430.14	NA	21.70	NA	408.44	0	408.44
	04/21/04	430.14	21.64	21.73	408.50	408.41	0.09	408.48
MP-9S	01/27/04	430.05	NA	8.19	NA	421.86	0	421.86
	03/15/04	430.05	NA	8.41	NA	421.64	0	421.64
	04/20/04	430.05	NA	7.76	NA	422.29	0	422.29
MP-9D	01/27/04	430.00	21.40	21.41	408.60	408.59	0.01	408.60
	03/15/04	430.00	20.92	20.93	409.08	409.07	0.01	409.08
	04/21/04	430.00	20.89	20.90	409.11	409.10	0.01	409.11
MP-10S	01/27/04	430.53	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	430.53	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-10S	04/21/04	430.53	DRY	DRY	DRY	DRY	DRY	DRY
MP-10D	01/27/04	430.37	NA	19.70	NA	410.67	0	410.67
	03/15/04	430.37	NA	19.58	NA	410.79	0	410.79
	04/21/04	430.37	NA	19.27	NA	411.10	0	411.10
MP-11S	01/27/04	431.19	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	431.19	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	431.19	DRY	DRY	DRY	DRY	DRY	DRY
MP-11D	01/27/04	431.19	NA	19.82	NA	411.37	0	411.37
	03/15/04	431.19	NA	19.72	NA	411.47	0	411.47
	04/21/04	431.19	NA	19.62	NA	411.57	0	411.57
MP-12S	01/27/04	431.70	--	--	--	--	--	--
	03/15/04	431.70	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	431.70	DRY	DRY	DRY	DRY	DRY	DRY
MP-12D	01/27/04	431.63	--	--	--	--	--	--
	03/15/04	431.63	NA	19.56	NA	412.07	0	412.07
	04/21/04	431.63	NA	19.50	NA	412.13	0	412.13
MP-13S	01/27/04	429.20	NA	7.97	NA	421.23	0	421.23
	03/15/04	429.20	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.20	NA	8.38	NA	420.82	0	420.82
MP-13D	01/27/04	429.30	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	429.30	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.30	DRY	DRY	DRY	DRY	DRY	DRY
MP-14S	01/27/04	429.51	--	--	--	--	--	--
	03/15/04	429.51	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.51	NA	9.04	NA	420.47	0	420.47
MP-14D	01/27/04	429.51	--	--	--	--	--	--
	03/15/04	429.51	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1
Groundwater Elevations/Apparent Product Thickness-Village of Hartford, 2004
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
MP-14D	04/21/04	429.51	DRY	DRY	DRY	DRY	DRY	DRY
MP-15S	01/27/04	429.63	NA	6.01	NA	423.62	0	423.62
	03/15/04	429.63	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.63	NA	9.04	NA	420.59	0	420.59
MP-15D	01/27/04	429.58	--	--	--	--	--	--
	03/15/04	429.58	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.58	DRY	DRY	DRY	DRY	DRY	DRY
MP-16S	01/27/04	429.75	--	--	--	--	--	--
	03/15/04	429.75	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.75	DRY	DRY	DRY	DRY	DRY	DRY
MP-16D	01/27/04	429.77	DRY	DRY	DRY	DRY	DRY	DRY
	03/05/04	429.77	DRY	DRY	DRY	DRY	DRY	DRY
	04/21/04	429.77	DRY	DRY	DRY	DRY	DRY	DRY

NOTES:

NA = Not Applicable -- = No data

SG = Specific gravity of hydrocarbon determined to be an average of 0.77 in the Village for data recorded during and after 09/03.

¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

² HB-07 is obstructed at approximately 9 ft below top of casing (TOC); HB-27 is obstructed at approximately 14 ft below TOC.

³ Located on private property. Access requires permission of owner; therefore, data may not be available for all gauging events.

⁴ MiniTROLL (automatic well gauging probe set at 38.21 ft below TOC) installed in HMW-27 (by ENSR in 2/04) was used to obtain gauging data on this date.

MP-series installed as vacuum monitoring probes by Clayton in 7/03 and are not appropriate for determining groundwater flow.

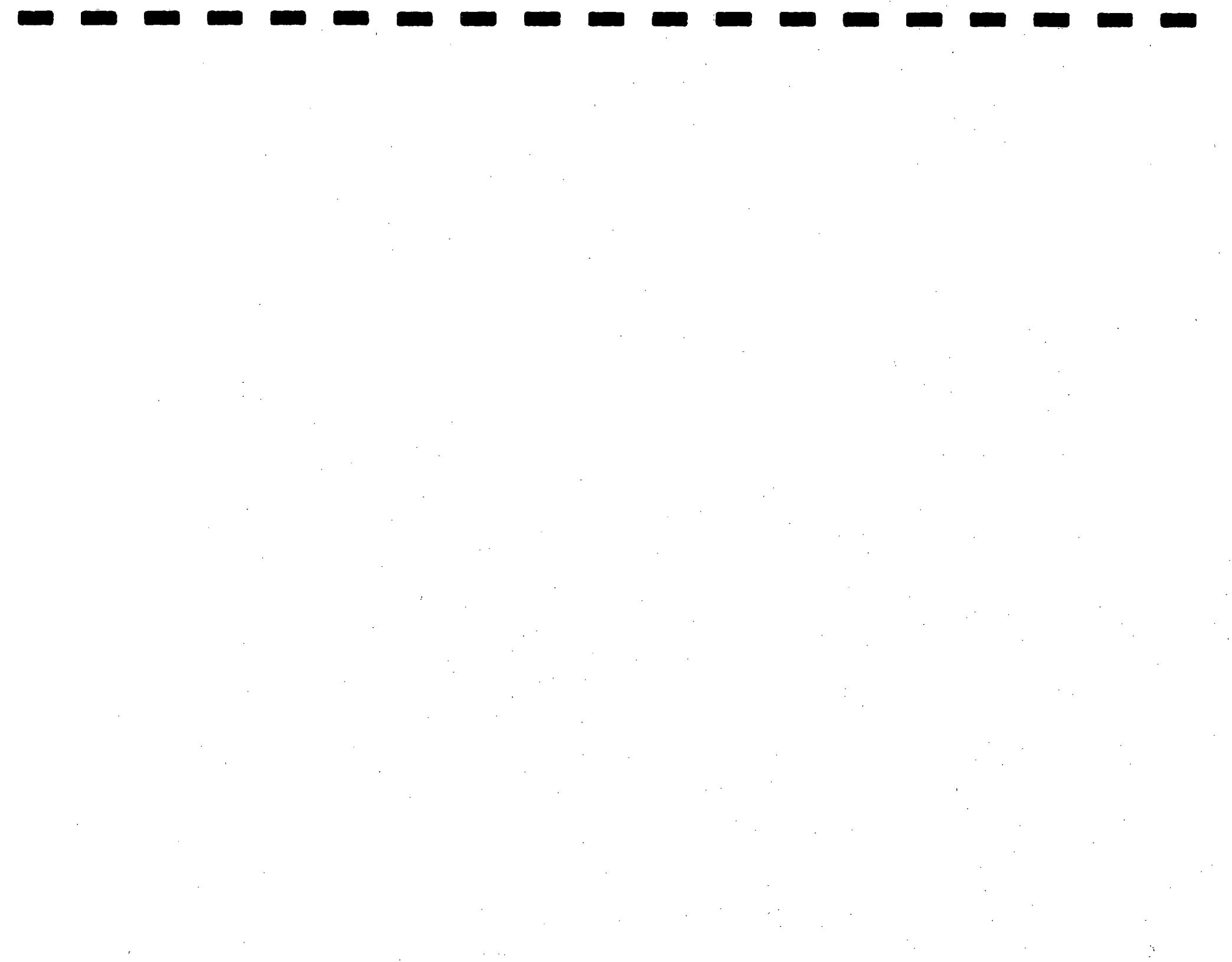
HMW-25 through HMW-29 installed by Clayton in 12/03.

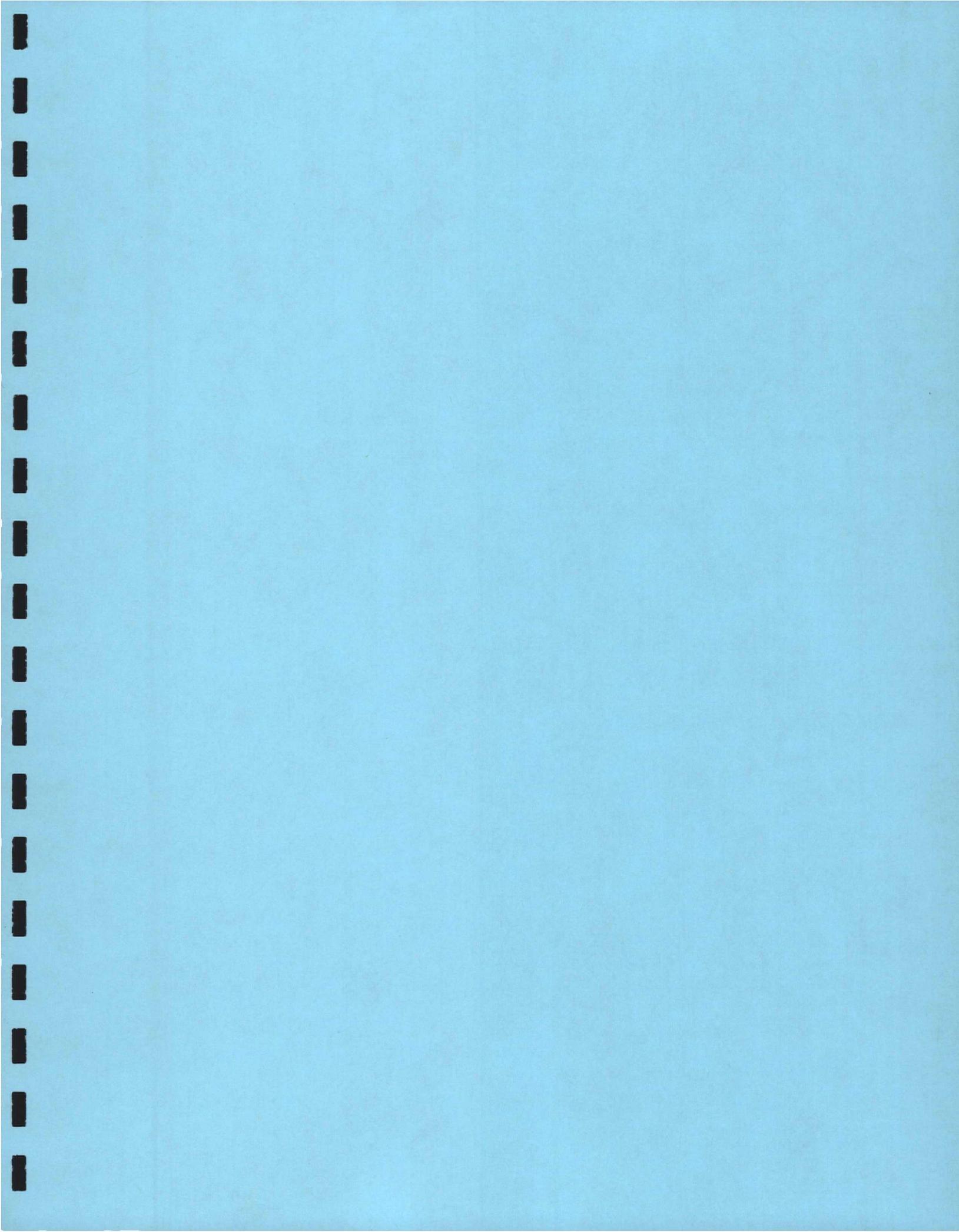
HMW-30 through 33 and RW-4 installed as pilot test wells by Clayton in 3/04 and are not appropriate for determining groundwater flow.

Remaining wells installed by others.

TOC elevations surveyed to USGS datum by CMT.

All gauging data between 2/3/04 and 4/1/04 was obtained as part of product recovery tests conducted at RW-2 and RW-3. Therefore, this data does not present static conditions.





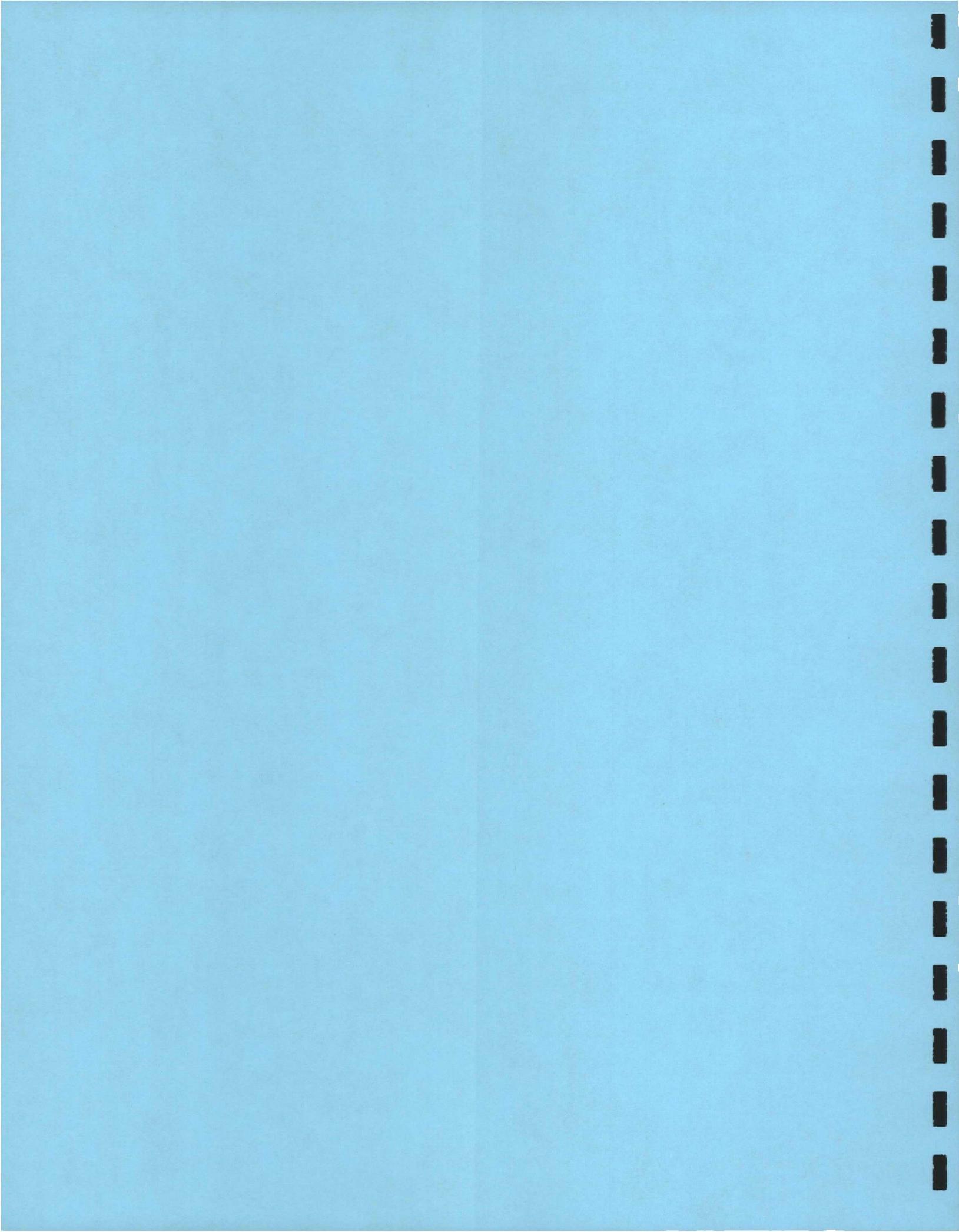


TABLE 2
Groundwater Elevations/Apparent Product Thickness-Wells (P and SP-series) Outside of Hartford, 2004
Shell Rand Avenue Site and Shell Tannery Property

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
P-47	01/27/04	428.20	NA	33.53	NA	394.67	0	394.67
	04/20/04	428.20	NA	31.90	NA	396.30	0	396.30
P-51	01/27/04	426.62	NA	32.25	NA	394.37	0	394.37
	04/20/04	426.62	NA	30.57	NA	396.05	0	396.05
P-76	01/28/04	433.28	NA	34.54	NA	398.74	0	398.74
	04/22/04	433.28	NA	30.24	NA	403.04	0	403.04
P-77	01/28/04	434.57	NA	37.61	NA	396.96	0	396.96
	04/22/04	434.57	NA	35.83	NA	398.74	0	398.74
P-78	01/28/04	433.29	NA	36.08	NA	397.21	0	397.21
	04/22/04	433.29	NA	34.24	NA	399.05	0	399.05
P-79	01/28/04	432.65	NA	35.44	NA	397.21	0	397.21
	04/22/04	432.65	NA	33.69	NA	398.96	0	398.96
P-80	01/28/04	433.04	NA	35.32	NA	397.72	0	397.72
	04/22/04	433.04	NA	33.59	NA	399.45	0	399.45
P-81	01/28/04	433.20	NA	34.22	NA	398.98	0	398.98
	04/22/04	433.20	NA	32.42	NA	400.78	0	400.78
P-104	01/28/04	432.67	NA	14.51	NA	418.16	0	418.16
	04/22/04	432.67	NA	13.68	NA	418.99	0	418.99
P-105	01/28/04	432.54	NA	31.24	NA	401.30	0	401.30
	04/22/04	432.54	NA	30.23	NA	402.31	0	402.31
P-106	01/28/04	432.64	NA	35.31	NA	397.33	0	397.33
	04/22/04	432.64	NA	33.44	NA	399.20	0	399.20
P-107	01/28/04	431.83	NA	29.12	NA	402.71	0	402.71
	04/22/04	431.83	NA	27.82	NA	404.01	0	404.01
P-129	01/28/04	433.23	NA	34.32	NA	398.91	0	398.91
P-130	01/28/04	431.67	--	--	--	--	--	--

TABLE 2
Groundwater Elevations/Apparent Product Thickness-Wells (P and SP-series) Outside of Hartford, 2004
Shell Rand Avenue Site and Shell Tannery Property

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
P-131	01/28/04	432.54	NA	11.38	NA	421.16	0	421.16
	04/22/04	432.54	NA	12.69	NA	419.85	0	419.85
P-132	01/28/04	432.08	NA	28.53	NA	403.55	0	403.55
	04/22/04	432.08	NA	27.57	NA	404.51	0	404.51
P-133	01/28/04	430.94	NA	13.57	NA	417.37	0	417.37
	04/22/04	430.94	NA	18.18	NA	412.76	0	412.76
P-134	01/28/04	432.46	NA	11.86	NA	420.60	0	420.60
	04/22/04	432.46	NA	12.63	NA	419.83	0	419.83
SP-1	01/28/04	429.00	--	--	--	--	--	--
	04/22/04	429.00	NA	10.53	NA	418.47	0	418.47
SP-2B	01/28/04	429.10	NA	26.66	NA	402.44	0	402.44
	04/22/04	429.10	NA	25.76	NA	403.34	0	403.34
SP-3	01/28/04	--	NA	9.91	NA	--	0	--
	04/22/04	--	NA	12.87	NA	--	0	--
SP-5	01/28/04	431.22	NA	10.01	NA	421.21	0	421.21
	04/22/04	431.22	NA	12.66	NA	418.56	0	418.56
SP-6	01/28/04	433.03	NA	10.56	NA	422.47	0	422.47
	04/22/04	433.03	NA	12.62	NA	420.41	0	420.41
SP-7	01/28/04	428.99	NA	8.47	NA	420.52	0	420.52
	04/22/04	428.99	NA	10.16	NA	418.83	0	418.83
SP-8	01/28/04	429.03	NA	8.28	NA	420.75	0	420.75
	04/22/04	429.03	NA	9.52	NA	419.51	0	419.51
SP-9	01/28/04	432.62	NA	10.62	NA	422.00	0	422.00
	04/22/04	432.62	NA	11.88	NA	420.74	0	420.74
SP-10	01/28/04	432.59	NA	10.75	NA	421.84	0	421.84
	04/22/04	432.59	NA	11.56	NA	421.03	0	421.03

TABLE 2
Groundwater Elevations/Apparent Product Thickness-Wells (P and SP-series) Outside of Hartford, 2004
Shell Rand Avenue Site and Shell Tannery Property

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-11	01/28/04	432.41	NA	10.27	NA	422.14	0	422.14
	04/22/04	432.41	NA	12.58	NA	419.83	0	419.83
SP-12	01/28/04	432.35	NA	29.61	NA	402.74	0	402.74
	04/22/04	432.35	NA	28.68	NA	403.67	0	403.67
SP-13	01/28/04	432.48	NA	33.82	NA	398.66	0	398.66
	04/22/04	432.48	NA	33.16	NA	399.32	0	399.32
SP-14	01/28/04	428.92	NA	28.51	NA	400.41	0	400.41
	04/22/04	428.92	NA	27.02	NA	401.90	0	401.90
SP-15	01/28/04	428.69	NA	9.18	NA	419.51	0	419.51
	04/22/04	428.69	NA	10.87	NA	417.82	0	417.82
SP-16	01/28/04	429.38	NA	8.91	NA	420.47	0	420.47
	04/22/04	429.38	NA	11.24	NA	418.14	0	418.14
SP-17	01/28/04	428.19	NA	9.06	NA	419.13	0	419.13
	04/22/04	428.19	NA	9.72	NA	418.47	0	418.47
SP-18	01/28/04	431.07	NA	31.43	NA	399.64	0	399.64
	04/22/04	431.07	NA	30.27	NA	400.80	0	400.80
SP-19	01/28/04	430.89	NA	13.95	NA	416.94	0	416.94
	04/22/04	430.89	NA	15.8	NA	415.09	0	415.09
SP-20	01/28/04	431.10	NA	12.42	NA	418.68	0	418.68
	04/22/04	431.10	NA	15.32	NA	415.78	0	415.78
SP-21	01/28/04	431.65	NA	14.38	NA	417.27	0	417.27
	04/22/04	431.65	NA	17.22	NA	414.43	0	414.43
SP-22	01/28/04	430.36	NA	9.98	NA	420.38	0	420.38
	04/22/04	430.36	NA	12.38	NA	417.98	0	417.98
SP-23	01/28/04	430.67	NA	10.19	NA	420.48	0	420.48
	04/22/04	430.67	NA	13.24	NA	417.43	0	417.43

TABLE 2
Groundwater Elevations/Apparent Product Thickness-Wells (P and SP-series) Outside of Hartford, 2004
Shell Rand Avenue Site and Shell Tannery Property

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-24	01/28/04	428.86	NA	8.29	NA	420.57	0	420.57
	04/22/04	428.86	NA	9.98	NA	418.88	0	418.88
SP-25	01/28/04	428.61	NA	8.13	NA	420.48	0	420.48
	04/22/04	428.61	NA	10.14	NA	418.47	0	418.47
SP-26	01/28/04	429.84	NA	9.41	NA	420.43	0	420.43
	04/22/04	429.84	NA	11.13	NA	418.71	0	418.71
SP-27	01/28/04	431.90	NA	11.28	NA	420.62	0	420.62
	04/22/04	431.90	NA	13.5	NA	418.40	0	418.40
SP-28	01/28/04	432.19	NA	10.63	NA	421.56	0	421.56
	04/22/04	432.19	NA	13.65	NA	418.54	0	418.54
SP-29	01/28/04	431.78	NA	11.16	NA	420.62	0	420.62
	04/22/04	431.78	NA	12.44	NA	419.34	0	419.34
SP-30	01/28/04	431.83	12.05	12.06	419.78	419.77	0.01	419.78
	04/22/04	431.83	NA	14.34	NA	417.49	0	417.49
SP-31	01/28/04	429.77	NA	10.19	NA	419.58	0	419.58
	04/22/04	429.77	NA	11.22	NA	418.55	0	418.55
SP-32	01/28/04	430.42	NA	10.84	NA	419.58	0	419.58
	04/22/04	430.42	NA	12.43	NA	417.99	0	417.99
SP-33	01/28/04	430.95	NA	10.52	NA	420.43	0	420.43
	04/22/04	430.95	NA	12.85	NA	418.10	0	418.10
SP-34	01/28/04	430.12	NA	10.95	NA	419.17	0	419.17
	04/22/04	430.12	NA	11.46	NA	418.66	0	418.66
SP-35	01/28/04	431.13	NA	10.70	NA	420.43	0	420.43
	04/22/04	431.13	NA	12.42	NA	418.71	0	418.71
SP-36	01/28/04	429.41	NA	32.50	NA	396.91	0	396.91
	04/22/04	429.41	NA	31.02	NA	398.39	0	398.39

TABLE 2
Groundwater Elevations/Apparent Product Thickness-Wells (P and SP-series) Outside of Hartford, 2004
Shell Rand Avenue Site and Shell Tannery Property

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-37	01/28/04	429.58	NA	24.12	NA	405.46	0	405.46
	04/22/04	429.58	NA	25.61	NA	403.97	0	403.97
SP-38	01/28/04	430.84	NA	19.38	NA	411.46	0	411.46
	04/22/04	430.84	NA	19.96	NA	410.88	0	410.88
SP-39	01/28/04	431.92	NA	11.88	NA	420.04	0	420.04
	04/22/04	431.92	NA	16.19	NA	415.73	0	415.73
SP-40	01/28/04	431.78	NA	28.60	NA	403.18	0	403.18
	04/22/04	431.78	NA	28.80	NA	402.98	0	402.98
SP-41	01/28/04	431.45	NA	35.33	NA	396.12	0	396.12
	04/22/04	431.45	NA	33.97	NA	397.48	0	397.48
SP-42	01/28/04	431.71	NA	35.42	NA	396.29	0	396.29
	04/22/04	431.71	NA	33.87	NA	397.84	0	397.84
SP-43	01/28/04	431.74	NA	29.61	NA	402.13	0	402.13
	04/22/04	431.74	NA	27.72	NA	404.02	0	404.02
SP-44	01/28/04	431.83	NA	14.11	NA	417.72	0	417.72
	04/22/04	431.83	NA	17.20	NA	414.63	0	414.63

NOTES:

NA = Not Applicable

-- = No data

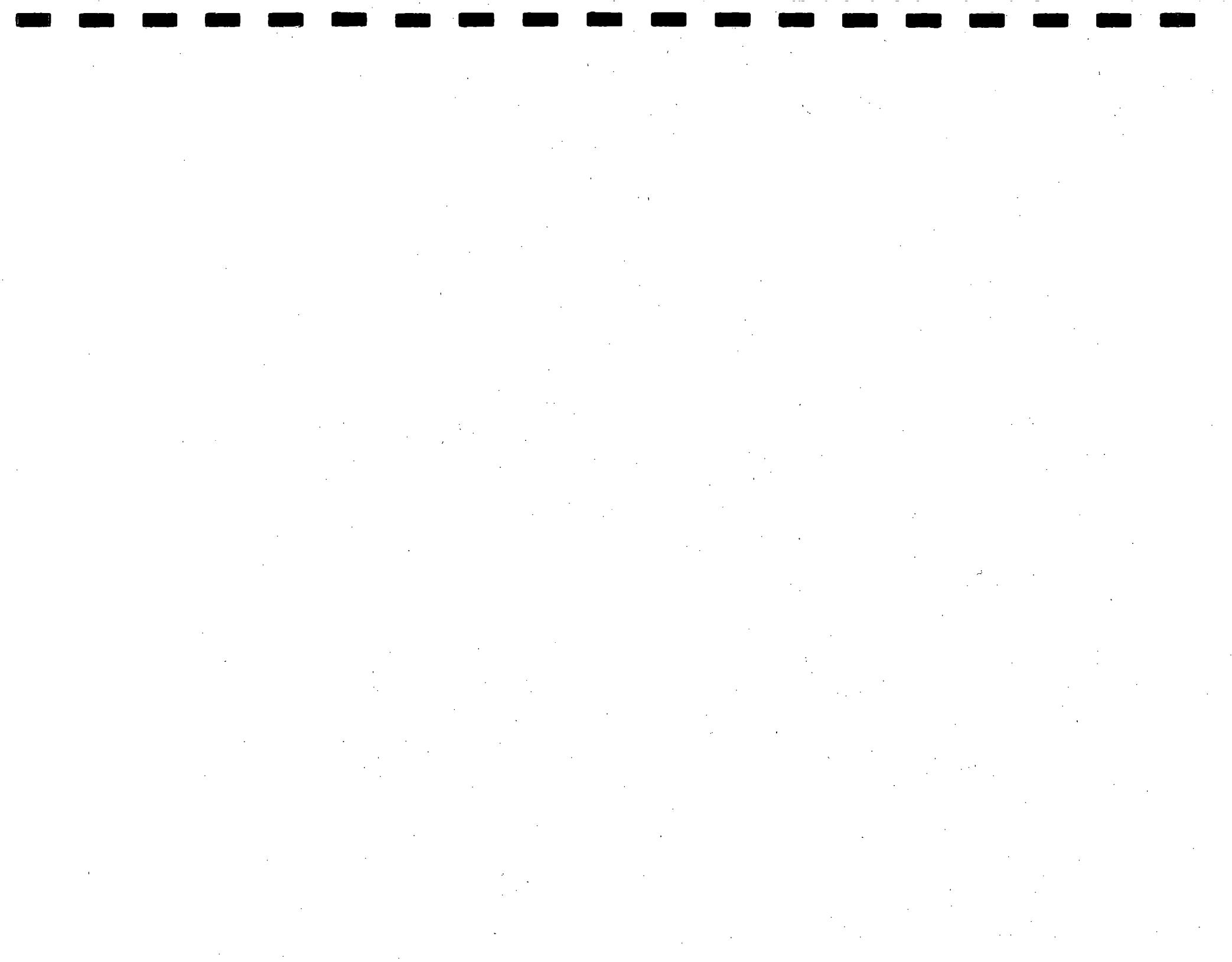
SG = Specific gravity of hydrocarbon assumed to be 0.74 by others.

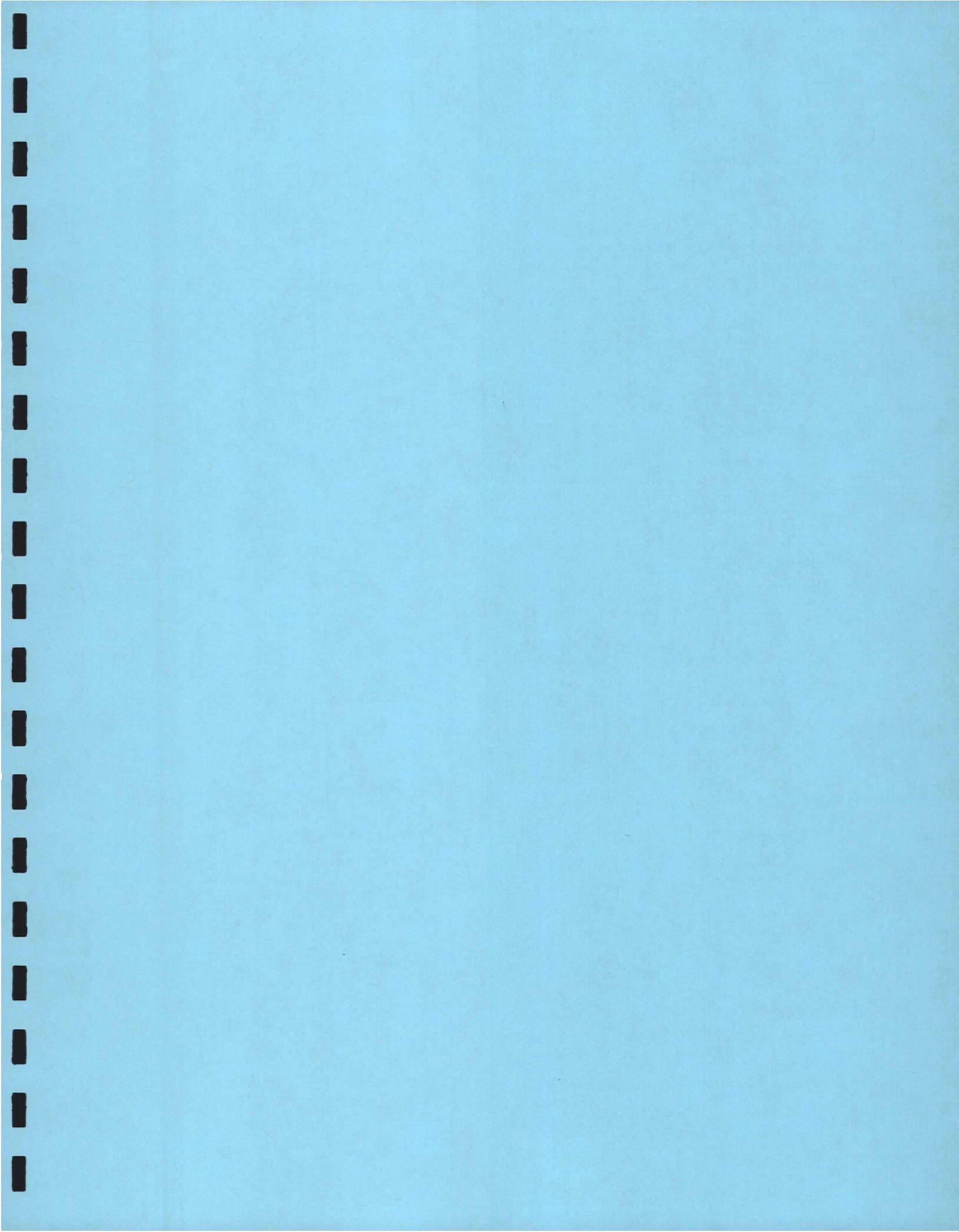
¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

Well SP-4 no longer exists.

TOC elevations (except for SP-42, SP-43, & SP-44) have been rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 7/01 by CMT, Inc.) was completed in 1/04 by CMT.

TOC elevations for SP-42, SP-43, and SP-44 were surveyed to USGS datum in 12/03 by CMT.





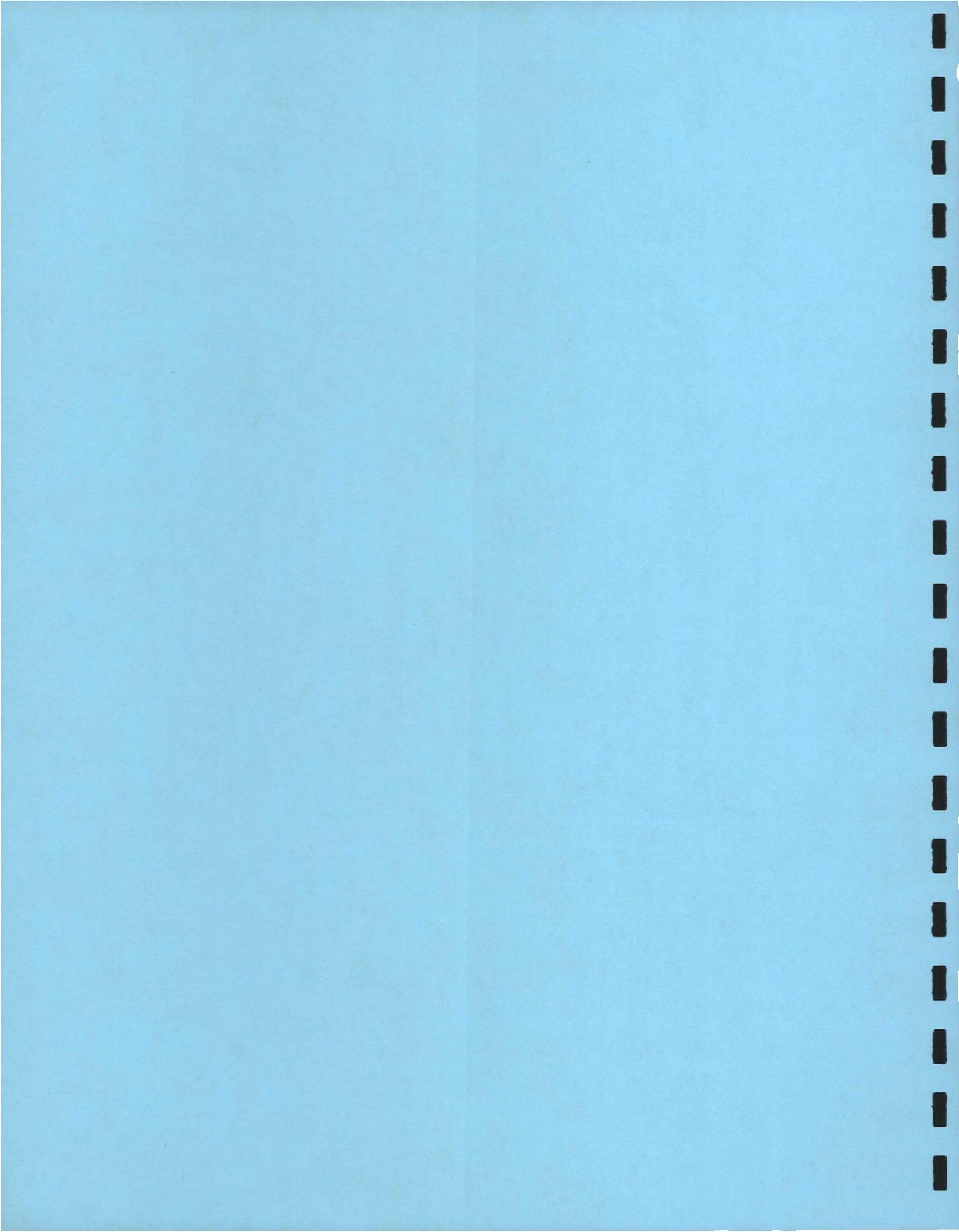


TABLE 3
Groundwater Elevations/Apparent Product Thickness-Wells (RB-series) Outside of Hartford, 2004
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-1	01/27/04	430.22	NA	31.13	NA	399.09	0	399.09
	04/20/04	430.22	NA	29.29	NA	400.93	0	400.93
TH2-88 @P7 Well	01/27/04	--	NA	31.04	NA	--	--	--
	04/20/04	--	NA	29.84	NA	--	--	--
RB-08P	01/28/04	433.43	23.89	23.90	409.54	409.53	0.01	409.54
	04/20/04	433.43	23.64	23.65	409.79	409.78	0.01	409.79
RB-08 (Recovery Well)	01/28/04	--	32.51	33.32	--	--	0.81	--
	04/20/04	--	30.84	31.16	--	--	0.32	--
RB-10*	01/28/04	430.03	31.02	31.25	399.01	398.78	0.23	398.96
	04/21/04	430.03	29.97	30.24	400.06	399.79	0.27	400.00
RB-13	01/27/04	--	NA	30.52	NA	--	0	--
	04/21/04	--	NA	29.20	NA	--	0	--
RB-22	01/28/04	431.01	NA	31.02	NA	399.99	0	399.99
	04/21/04	431.01	NA	29.86	NA	401.15	0	401.15
RB-25	01/27/04	432.11	NA	31.84	NA	400.27	0	400.27
	04/20/04	432.11	NA	31.95	NA	400.16	0	400.16
RB-26	01/27/04	430.03	NA	31.41	NA	398.62	0	398.62
	04/20/04	430.03	NA	29.73	NA	400.30	0	400.30
RB-29	01/28/04	431.89	13.70	13.88	418.19	418.01	0.18	418.15
	04/20/04	431.89	13.61	13.74	418.28	418.15	0.13	418.25
RB-30	01/28/04	431.89	NA	32.30	NA	399.59	0	399.59
	04/20/04	431.89	NA	31.26	NA	400.63	0	400.63
RB-35	01/28/04	429.85	29.10	29.54	400.75	400.31	0.44	400.65
	04/21/04	429.85	27.45	28.80	402.4	401.05	1.35	402.10

TABLE 3
Groundwater Elevations/Apparent Product Thickness-Wells (RB-series) Outside of Hartford, 2004
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-36	01/28/04	429.16	NA	23.32	NA	405.84	0	405.84
	04/20/04	429.16	NA	21.83	NA	407.33	0	407.33
RB-37*	01/28/04	428.38	29.32	32.35	399.06	396.03	3.03	398.39
	04/20/04	428.38	27.57	32.11	400.81	396.27	4.54	399.81
RB-38	01/27/04	433.69	NA	35.02	NA	398.67	0	398.67
	04/20/04	433.69	NA	33.94	NA	399.75	0	399.75
RB-39	01/27/04	431.48	NA	26.90	NA	404.58	0	404.58
	04/20/04	431.48	NA	25.83	NA	405.65	0	405.65
RB-40	01/27/04	433.50	NA	34.12	NA	399.38	0	399.38
	04/20/04	433.50	NA	33.51	NA	399.99	0	399.99
RB-41	01/27/04	433.24	NA	33.72	NA	399.52	0	399.52
	04/20/04	433.24	NA	33.34	NA	399.90	0	399.90
RB-42	01/27/04	428.45	NA	28.33	NA	400.12	0	400.12
	04/20/04	428.45	NA	28.27	NA	400.18	0	400.18
RB-43	01/27/04	427.95	NA	25.54	NA	402.41	0	402.41
	04/20/04	427.95	NA	25.85	NA	402.10	0	402.10
RB-44	01/27/04	432.95	NA	31.93	NA	401.02	0	401.02
	04/20/04	432.95	NA	30.95	NA	402.00	0	402.00
RB-45	01/27/04	431.92	NA	30.41	NA	401.51	0	401.51
	04/20/04	431.92	NA	30.04	NA	401.88	0	401.88
RB-46	01/28/04	430.62	NA	30.43	NA	400.19	0	400.19
	04/21/04	430.62	NA	29.40	NA	401.22	0	401.22
RB-47	01/28/04	431.12	NA	31.18	NA	399.94	0	399.94
	04/21/04	431.12	NA	30.13	NA	400.99	0	400.99
RB-48*	01/28/04	431.26	29.49	32.56	401.77	398.70	3.07	401.09
	04/21/04	431.26	28.54	30.65	402.72	400.61	2.11	402.26

TABLE 3
Groundwater Elevations/Apparent Product Thickness-Wells (RB-series) Outside of Hartford, 2004
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-49	01/28/04	429.31	NA	2.80	NA	426.51	0	426.51
	04/21/04	429.31	NA	3.21	NA	426.10	0	426.10
RB-50	01/28/04	431.50	NA	4.80	NA	426.70	0	426.70
	04/21/04	431.50	NA	6.08	NA	425.42	0	425.42
RB-51	01/28/04	431.58	NA	31.01	NA	400.57	0	400.57
	04/21/04	431.58	NA	29.24	NA	402.34	0	402.34
RB-52*	01/28/04	432.02	NA	32.96	NA	399.06	0	399.06
	04/21/04	432.02	NA	31.26	NA	400.76	0	400.76
RB-53*	01/28/04	433.84	34.55	34.56	399.29	399.28	0.01	399.29
	04/20/04	433.84	NA	32.37	NA	401.47	0	401.47
RB-54	01/27/04	431.88	NA	20.11	NA	411.77	0	411.77
	04/20/04	431.88	NA	21.58	NA	410.30	0	410.30
RB-55*	01/28/04	434.21	33.39	33.40	400.82	400.81	0.01	400.82
	04/21/04	434.21	29.97	37.42	404.24	396.79	7.45	402.60
RB-56*	01/28/04	431.91	32.16	35.64	399.75	396.27	3.48	398.98
	04/21/04	431.91	31.35	33.40	400.56	398.51	2.05	400.11
GB-1	01/27/04	431.55	NA	29.07	NA	402.48	0	402.48
	04/20/04	431.55	NA	29.41	NA	402.14	0	402.14
GB-6	01/27/04	430.53	NA	29.44	NA	401.09	0	401.09
	04/20/04	430.53	NA	29.62	NA	400.91	0	400.91
LP-4	01/27/04	432.53	NA	31.64	NA	400.89	0	400.89
	04/20/04	432.53	NA	31.36	NA	401.17	0	401.17
T-1*	01/28/04	--	29.47	32.50	--	--	3.03	--
	04/21/04	--	28.55	30.61	--	--	2.06	--
MP-1S	04/21/04	--	NA	24.46	NA	--	0	--
MP-1D	04/21/04	--	30.16	30.20	--	--	0.04	--
MP-2S	04/21/04	--	NA	29.67	NA	--	0	--

TABLE 3
Groundwater Elevations/Apparent Product Thickness-Wells (RB-series) Outside of Hartford, 2004
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
MP-2D	04/21/04	--	NA	27.00	NA	--	0	--
MP-3S	04/21/04	--	NA	29.26	NA	--	0	--
MP-3D	04/21/04	--	NA	18.66	NA	--	0	--
MP-4S	04/21/04	--	--	--	--	--	--	--
MP-4D	04/21/04	--	--	--	--	--	--	--
SVE-1S	04/21/04	--	--	--	--	--	--	--
SVE-1D*	04/20/04	--	29.65	29.71	--	--	0.06	--
NE Sump	04/21/04	--	13.79	13.80	--	--	0.01	--
Product Pipeline Sump	04/21/04	--	13.79	13.80	--	--	0.01	--

NOTES:

NA = Not Applicable

-- = No data

¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

* Well contains product recovery pump.

SG = Specific gravity of hydrocarbon determined to be an average of 0.78 on the Premcor facility for data recorded during and after 9/03.

MP- and SVE-series installed by Clayton in 6/03. MP-series installed as vacuum monitoring probes. SVE-series installed as soil vapor extraction wells.

MP- and SVE-series not appropriate for determining groundwater flow.

Remaining wells installed by others.

MP- and SVE-series, and RB-13, T-1, TH2-88@P7 well and RB-08 (recovery well) well TOC elevations to be determined by Illinois-licensed surveyor.

TOC elevations rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 6/02 by CMT, Inc.) was completed in 1/04 by CMT.

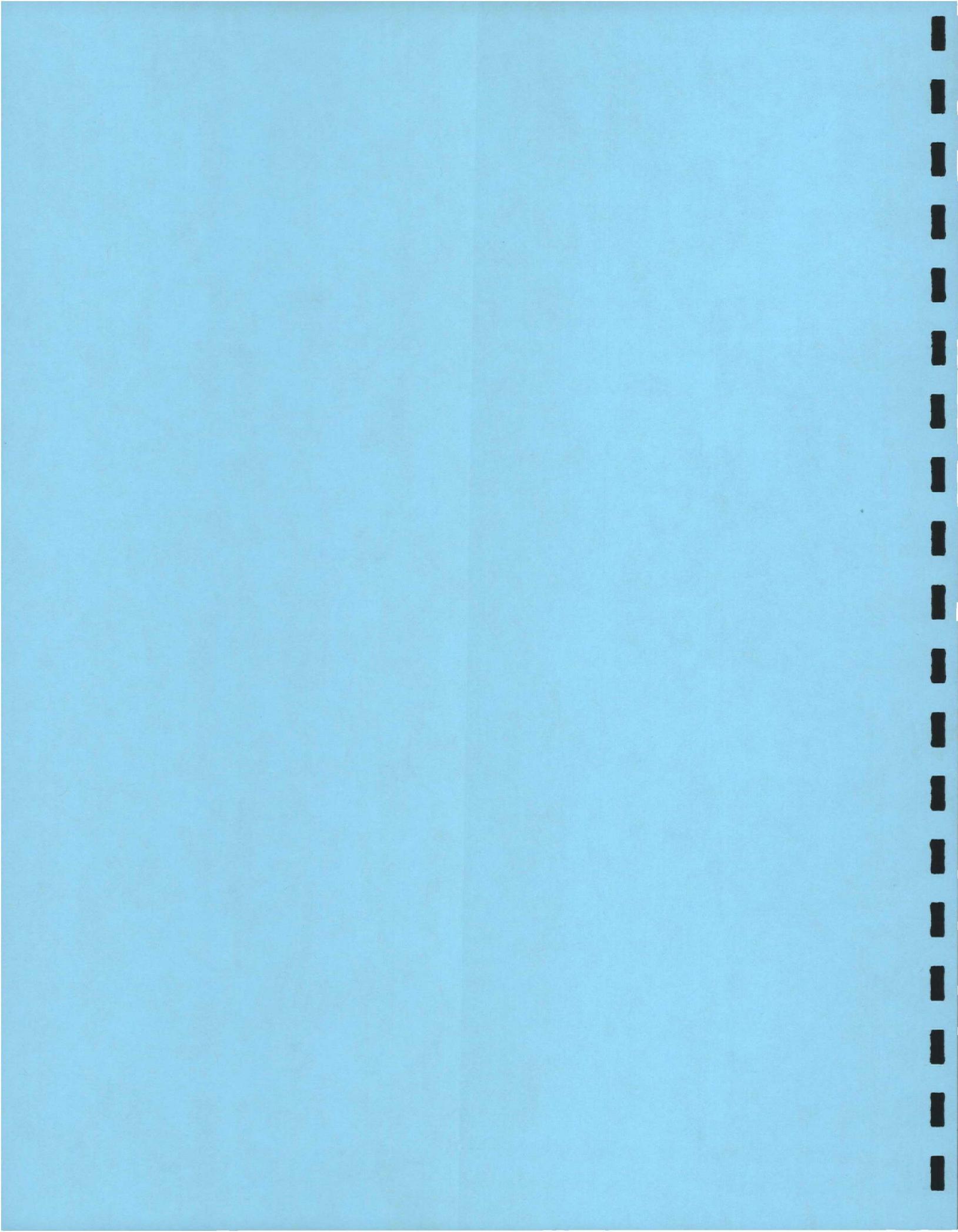


TABLE 4
Compound/Analyte List for Water Samples
VOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT * (ug/L)	PRACTICAL QUANTITATION LIMIT * (ug/L)	ACCEPTABLE DETECTION LIMIT ** (ug/L)
	Source	Method No.	Source	Method No.				
VOCs	SW-846	5030	SW-846	8260	Benzene	0.5	2	5
	SW-846	5030	SW-846	8260	Carbon disulfide	1	5	700
	SW-846	5030	SW-846	8260	Chlorobenzene	1	5	100
	SW-846	5030	SW-846	8260	Chloroform	1	5	0.2
	SW-846	5030	SW-846	8260	1,2-Dibromoethane or Ethylene dibromide (EDB)	1	5	0.05
	SW-846	5030	SW-846	8260	1,2-Dichlorobenzene	1	5	600
	SW-846	5030	SW-846	8260	1,3-Dichlorobenzene	1	5	NA
	SW-846	5030	SW-846	8260	1,4-Dichlorobenzene	1	5	75
	SW-846	5030	SW-846	8260	1,1-Dichloroethane	1	5	700
	SW-846	5030	SW-846	8260	1,2-Dichloroethane	1	5	5
	SW-846	5030	SW-846	8260	Ethylbenzene	1	5	700
	SW-846	5030	SW-846	8260	Methyl ethyl ketone (MEK) or 2-Butanone	5	50	NA
	SW-846	5030	SW-846	8260	Methyl tertiary butyl ether (MTBE)	0.5	2	70
	SW-846	5030	SW-846	8260	Styrene	1	5	100
	SW-846	5030	SW-846	8260	1,1,1-Trichloroethane	1	5	200
	SW-846	5030	SW-846	8260	Tetrachloroethene	1	5	5
	SW-846	5030	SW-846	8260	Toluene	1	5	1,000
	SW-846	5030	SW-846	8260	Trichloroethene	1	5	5
	SW-846	5030	SW-846	8260	o, m, p-Xylenes (total)	1	5	10,000
	SW-846	3510	SW-846	8015	1,4-Dioxane	250	500	NA

NOTES:

µg/L = Micrograms per liter

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

** = Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

NA = Not available

TABLE 4
Compound/Analyte List for Water Samples
SVOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT * (mg/L)	PRACTICAL QUANTITATION LIMIT * (mg/L)	ACCEPTABLE DETECTION LIMIT ** (mg/L)
	Source	Method No.	Source	Method No.				
SVOCs	SW-846	3510	SW-846	8310	Acenaphthene	0.002	0.005	0.42
	SW-846	3510	SW-846	8310	Anthracene	0.0001	0.005	2.1
	SW-846	3510	SW-846	8310	Benz(a)anthracene	0.00005	0.0001	0.00013
	SW-846	3510	SW-846	8310	Benz(b)fluoranthene	0.0001	0.00018	0.00018
	SW-846	3510	SW-846	8310	Benz(k)fluoranthene	0.0001	0.00017	0.00017
	SW-846	3510	SW-846	8310	Benzo(a)pyrene	0.0001	0.0002	0.0002
	SW-846	3510	SW-846	8270	Bis(2-ethylhexyl)phthalate	0.004	0.006	0.006
	SW-846	3510	SW-846	8310	Chrysene	0.0003	0.0008	0.0015
	SW-846	3510	SW-846	8270	o-Cresol	0.001	0.01	0.35
	SW-846	3510	SW-846	8270	m-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	p-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	Di-n-butyl phthalate	0.003	0.01	0.7
	SW-846	3510	SW-846	8310	Dibenz(a,h)anthracene	0.0002	0.0003	0.0003
	SW-846	3510	SW-846	8270	Diethyl phthalate	0.002	0.01	5.6
	SW-846	3510	SW-846	8270	2,4-Dimethylphenol	0.001	0.01	0.14
	SW-846	3510	SW-846	8270	Dimethyl phthalate	0.001	0.01	NA
	SW-846	3510	SW-846	8270	2,4-Dinitrophenol	0.001	0.01	0.014
	SW-846	3510	SW-846	8310	Fluoranthene	0.0005	0.002	0.28
	SW-846	3510	SW-846	8310	Fluorene	0.0004	0.001	0.28
	SW-846	3510	SW-846	8310	Indeno(1,2,3-cd)pyrene	0.0001	0.0004	0.00043
	SW-846	3510	SW-846	8310	Naphthalene	0.002	0.005	0.14
	SW-846	3510	SW-846	8270	4-Nitrophenol	0.001	0.01	NA
	SW-846	3510	SW-846	8310	Phenanthrene	0.0005	0.005	NA
	SW-846	3510	SW-846	8270	Phenol	0.001	0.005	0.1
	SW-846	3510	SW-846	8310	Pyrene	0.0001	0.002	0.21
	SW-846	3510	SW-846	8270	Pyridine	0.005	0.02	NA
	SW-846	3510	SW-846	8270	Quinoline	0.001	0.005	NA

NOTES:

mg/L = Milligrams per liter

µg/L = Micrograms per liter

NA = Not available

(L) = This is the lowest limit able to be achieved by current methodologies.

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

** = Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

TABLE 4
Compound/Analyte List for Water Samples
Inorganics
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT * (mg/L)	PRACTICAL QUANTITATION LIMIT * (mg/L)	ACCEPTABLE DETECTION LIMIT ** (mg/L)
	Source	Method No.	Source	Method No.				
Metals	SW-846	3020A	SW-846	7041	Antimony	0.0017	0.005	0.006
	SW-846	3020A	SW-846	7060A	Arsenic	0.0007	0.003	0.05
	SW-846	3005A	SW-846	6010	Barium	0.0024	0.005	2
	SW-846	3005A	SW-846	6010	Beryllium	0.003	0.001	0.004
	SW-846	3005A	SW-846	6010	Cadmium	0.0003	0.002	0.005
	SW-846	3005A	SW-846	6010	Chromium-Total	0.004	0.01	0.1
	SW-846	3005A	SW-846	6010	Cobalt	0.0022	0.01	1
	SW-846	3020A	SW-846	7421	Lead	0.0004	0.002	0.0075
	SW-846	3005A	SW-846	6010	Mercury	0.000051	0.0002	0.002
	SW-846	3005A	SW-846	6010	Nickel	0.0033	0.01	0.1
	SW-846	3020A	SW-846	7740	Selenium	0.0035	0.006	0.05
	SW-846	3005A	SW-846	6010	Silver	0.0032	0.01	0.05
	SW-846	3005A	SW-846	6010	Vanadium	0.0032	0.01	0.049
	SW-846	3005A	SW-846	6010	Zinc	0.0021	0.01	5
General	--	--	SW-846	9012A	Cyanide Total	(mg/L)	(mg/L)	(mg/L)
	--	--	SW-846	9012A	Cyanide Total	0.0026	0.007	0.2

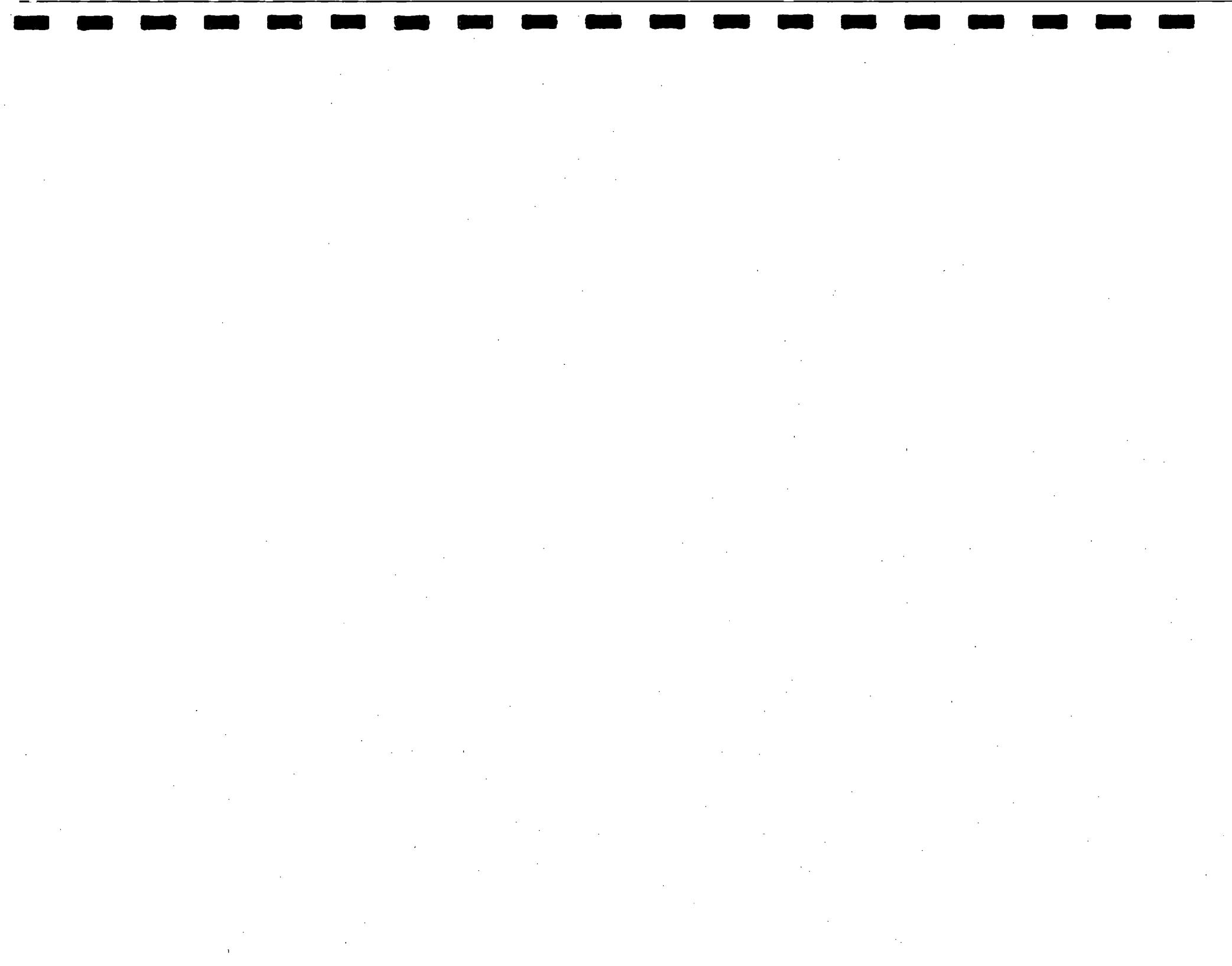
NOTES:

mg/L = Milligrams per liter [except for pH (unitless)].

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

NA = Not available

-- = Not applicable



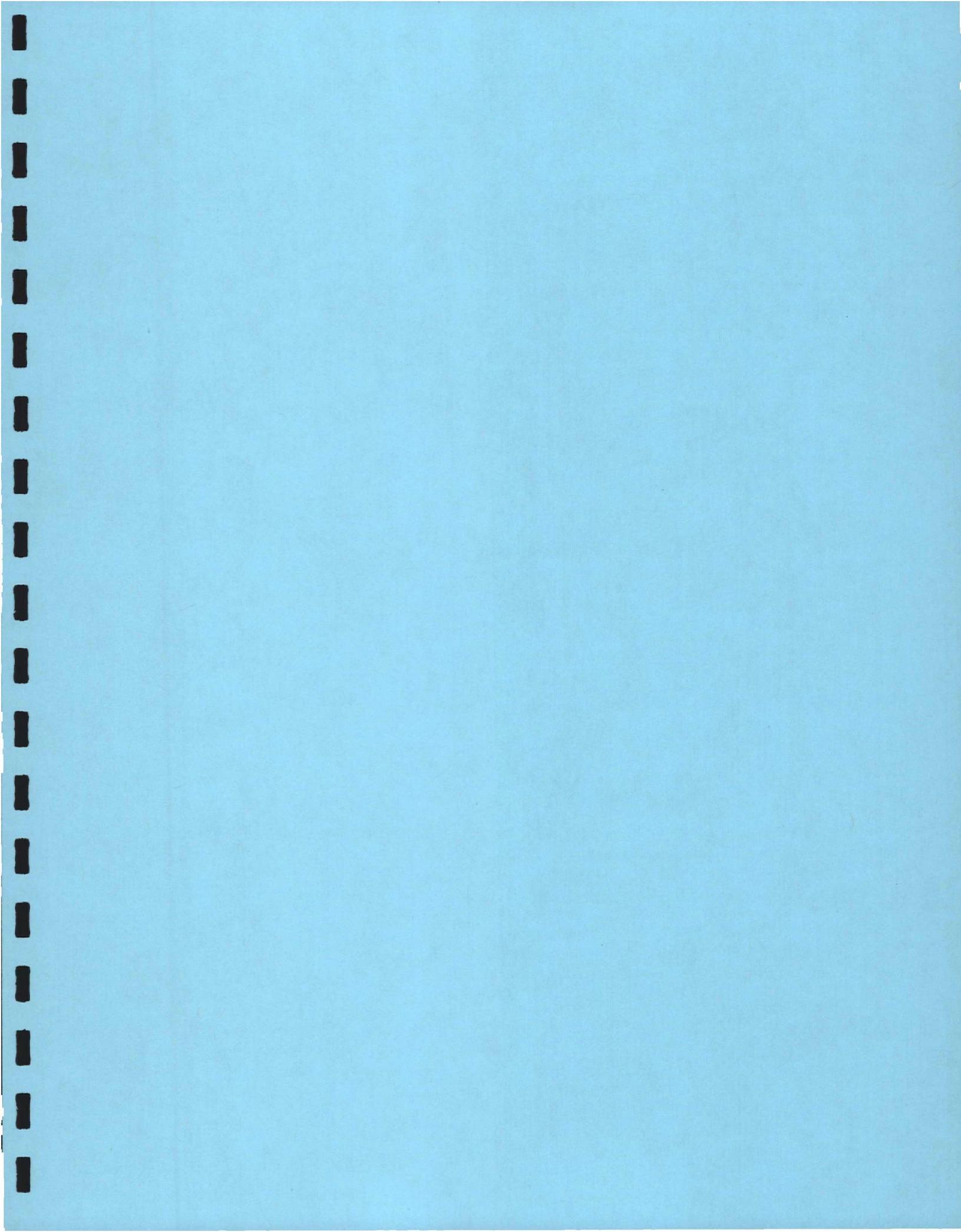


TABLE 5
Sample Container, Preservation, and Holding Time Requirements For
Sentinel Well Water Samples

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	ANALYSIS	HOLDING TIME	CONTAINER	PRESERVATION
Organics	VOCs	14 days	3-40 ml VOC vials	HCl to pH < 2, no headspace Maintained at 4 + 2 degrees Celcius
	1,4-Dioxane	7 days	3-40 ml VOC vials	Unpreserved, no headspace Maintained at 4 + 2 degrees Celcius
	SVOCs	7 days	2 L amber glass jars	Unpreserved Maintained at 4 + 2 degrees Celcius
Metals	Inorganic Metals	180 days	250 ml plastic jar	HNO ₃ to pH<2
	Mercury	28 days		Maintained at 4 + 2 degrees Celcius
General	Total Cyanide	14 days	500 ml plastic jar	NaOH to pH>12 Maintained at 4 + 2 degrees Celcius

NOTES:

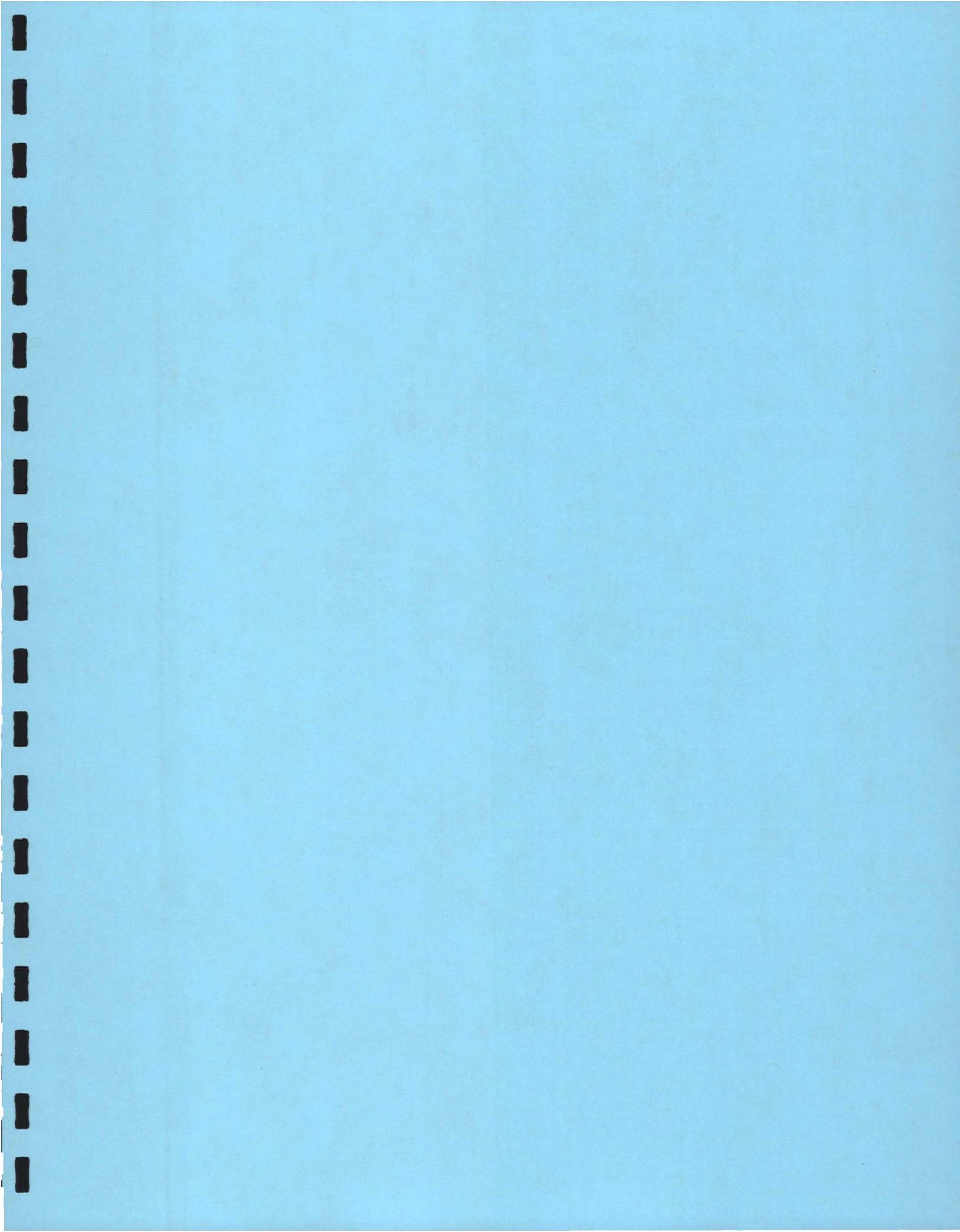
Sentinel Wells: HMW-25, HMW-26, HMW-27, HMW-28, and HMW-29.

VOCs include Ethylene Dibromide (1,2-Dibromoethane).

All compounds/analytes to be unfiltered.

Samples to be analyzed for the "Skinner List" as identified in Item 47 of the Administrative Order on Consent (AOC).

Compounds/analytes based on USEPA Region 5 Waste Management Branch "Skinner List" Constituents of Concern for Wastes from Petroleum Processes.



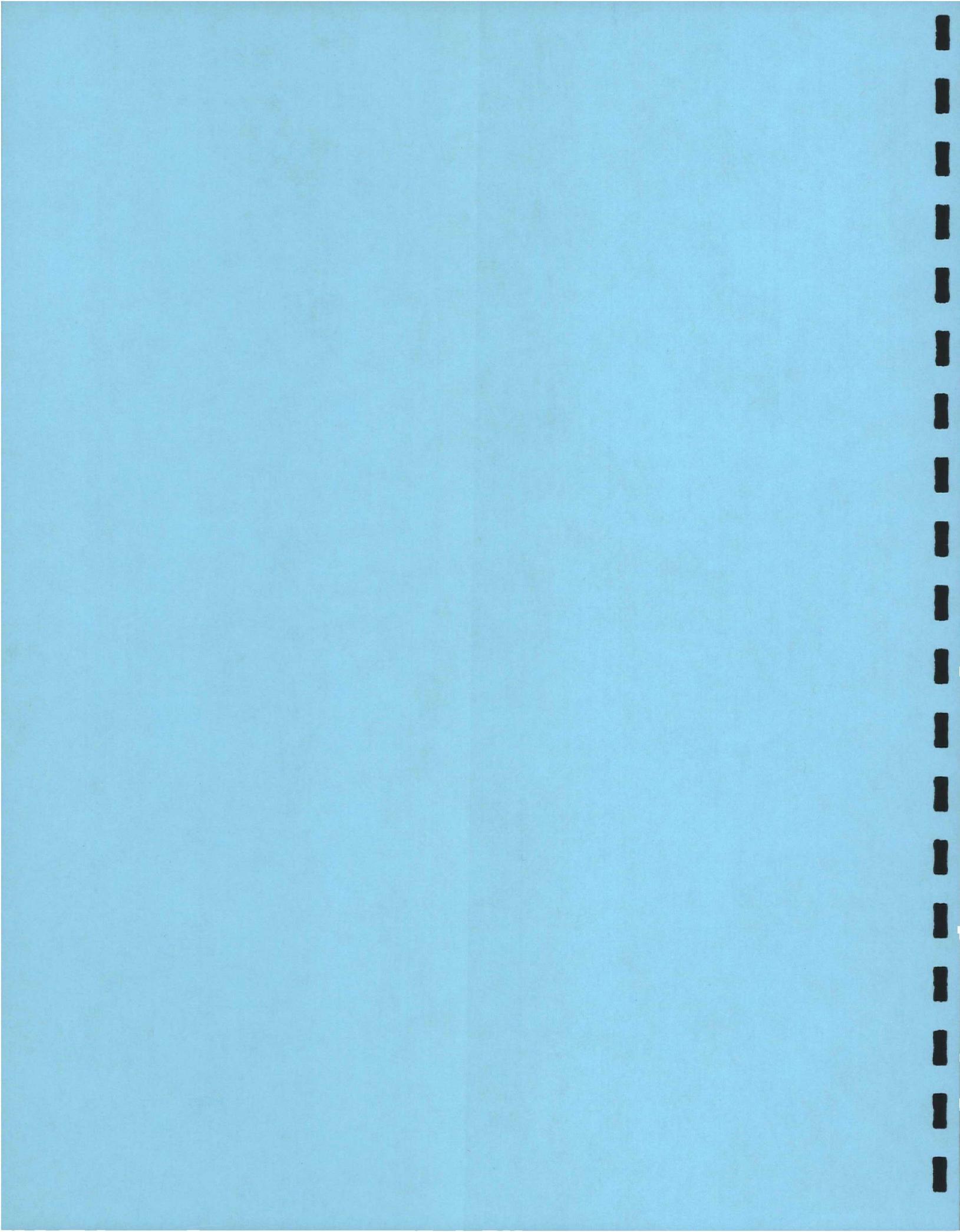


TABLE 6
Groundwater Analytical Results - Skinner List
Samples Collected December 2003 and April 2004
(Sentinel Wells)

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number										
		Class I	HMW-25 12/16/03	HMW-25 4/22/04	HMW-26 12/16/03	HMW-26 4/22/04	HMW-27 12/16/03	HMW-27 4/22/04	Dup-01 HMW-27 4/22/04	HMW-28 12/16/03	HMW-28 4/22/04	HMW-29 12/17/03
Metals (mg/L)												
Barium	2	0.318	0.238	0.362	0.242	0.175	0.189	0.198	0.107	0.273	0.139	0.268
Beryllium	0.004	<0.0010	<0.0010	0.0003 J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	0.005	<0.0020	0.0004 J	<0.0020	<0.0020	0.0003 J	<0.0020	<0.0007	<0.0020	0.0011 J	0.0007 J	0.0009 J
Chromium	0.1	0.0098 J	0.0061 J	0.0311	0.0041 J	0.0091 J	<0.0100	<0.0100	0.0059 J	<0.0100	<0.0100	<0.0100
Cobalt	1	0.0045 J	<0.0100	0.0077 J	<0.0100	0.0047 J	0.0089 J	0.0084 J	0.0092 J	0.0145	<0.0100	0.0060 J
Nickel	0.1	0.0178	0.0128	0.0219	<0.0100	0.0112	0.0175	0.0175	0.0221	0.0325	0.0038 J	0.0232
Silver	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0033 J	<0.0100	<0.0100	0.0065 J	<0.0100
Vanadium	0.049	0.0093 J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	5	0.210	0.241	0.276	0.118	0.213	0.0800	0.0910	0.0827	0.0840	0.0258	0.136
Antimony	0.006	<0.0050	0.0023 J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	0.05	0.0011 J	<0.0030	0.0045	0.0065	<0.0030	0.0018 J	0.0012 J	0.0014 J	0.0090	0.0064	0.0066
Lead	0.0075	0.0053	<0.0020	0.0169	0.0033	0.0008 J	0.0017 J	0.0026	0.0024	0.0078	0.0016 J	0.0238
Selenium	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0109	<0.0060	<0.0060
SVOCs (mg/L)												
2,4-Dimethylphenol	0.14	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
2,4-Dinitrophenol	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
4-Nitrophenol	NL	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
Bis(2-ethylhexyl)phthalate	0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	0.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
Diethyl phthalate	5.6	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
Dimethyl phthalate	NL	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
m,p-Cresol	NL	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
o-Cresol	0.35	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010
Phenol	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	NL	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.021
Quinoline	NL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

TABLE 6
Groundwater Analytical Results - Skinner List
Samples Collected December 2003 and April 2004
(Sentinel Wells)

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Sentinel Well Number										
	Taco Tier 1 Groundwater Remediation Objectives (1)	HMW-25 12/16/03	HMW-25 4/22/04	HMW-26 12/16/03	HMW-26 4/22/04	HMW-27 12/16/03	HMW-27 4/22/04	Dup-01 HMW-27 4/22/04	HMW-28 12/16/03	HMW-28 4/22/04	HMW-29 12/17/03
Class I											
SVOCs (mg/L)											
Acenaphthene	0.42	<0.00500	<0.010	<0.00500	<0.010	<0.00500	<0.010	<0.010	<0.00500	<0.010	<0.00500
Anthracene	2.1	<0.00500	<0.010	<0.00500	<0.010	<0.00500	<0.010	<0.010	<0.00500	<0.010	<0.00500
Benzo(a)anthracene	0.00013	<0.00010	<0.010	<0.00010	<0.010	<0.00010	<0.010	<0.010	<0.00010	<0.010	<0.00010
Benzo(a)pyrene	0.0002	<0.00020	<0.010	<0.00020	<0.010	<0.00020	<0.010	<0.010	<0.00020	<0.010	<0.00020
Benzo(b)fluoranthene	0.00018	<0.00018	<0.010	<0.00018	<0.010	<0.00018	<0.010	<0.010	<0.00018	<0.010	<0.00018
Benzo(k)fluoranthene	0.00017	<0.00017	<0.010	<0.00017	<0.010	<0.00017	<0.010	<0.010	<0.00017	<0.010	<0.00017
Chrysene	0.0015	<0.00080	<0.010	<0.00080	<0.010	<0.00080	<0.010	<0.010	<0.00080	<0.010	<0.00080
Dibenz(a,h)anthracene	0.0003	<0.00030	<0.010	<0.00030	<0.010	<0.00030	<0.010	<0.010	<0.00030	<0.010	<0.00030
Fluoranthene	0.28	<0.00200	<0.010	<0.00200	<0.010	<0.00200	<0.010	<0.010	<0.00200	<0.010	<0.00200
Fluorene	0.28	<0.00100	<0.010	<0.00100	<0.010	<0.00100	<0.010	<0.010	<0.00100	<0.010	<0.00100
Indeno(1,2,3-cd)pyrene	0.00043	<0.00040	<0.010	<0.00040	<0.010	<0.00040	<0.010	<0.010	<0.00040	<0.010	<0.00040
Naphthalene	0.14	<0.00500	<0.010	<0.00500	<0.010	<0.00500	<0.010	<0.010	<0.00500	<0.010	<0.00500
Phenanthrene	NL	<0.00500	<0.010	<0.00500	<0.010	<0.00500	<0.010	<0.010	<0.00500	<0.010	<0.00500
Pyrene	0.21	<0.00200	<0.010	<0.00200	<0.010	<0.00200	<0.010	<0.010	<0.00200	<0.010	<0.00200
Metals (mg/L)											
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
VOCs (mg/L)											
1,4-Dioxane	NL	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
General Chemistry (mg/L)											
Cyanide	0.2	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.004 J	<0.007
VOCs (µg/L)											
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	0.05	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

TABLE 6
Groundwater Analytical Results - Skinner List
Samples Collected December 2003 and April 2004
(Sentinel Wells)

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number										
		HMW-25 12/16/03	HMW-25 4/22/04	HMW-26 12/16/03	HMW-26 4/22/04	HMW-27 12/16/03	HMW-27 4/22/04	Dup-01 HMW-27 4/22/04	HMW-28 12/16/03	HMW-28 4/22/04	HMW-29 12/17/03	HMW-29 4/22/04
VOCs ($\mu\text{g/L}$)	($\mu\text{g/L}$)											
1,3-Dichlorobenzene	NL	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	NL	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Benzene	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	0.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylenes (total)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

$\mu\text{g/L}$ = Micrograms per liter

= Detection Limit above TACO

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

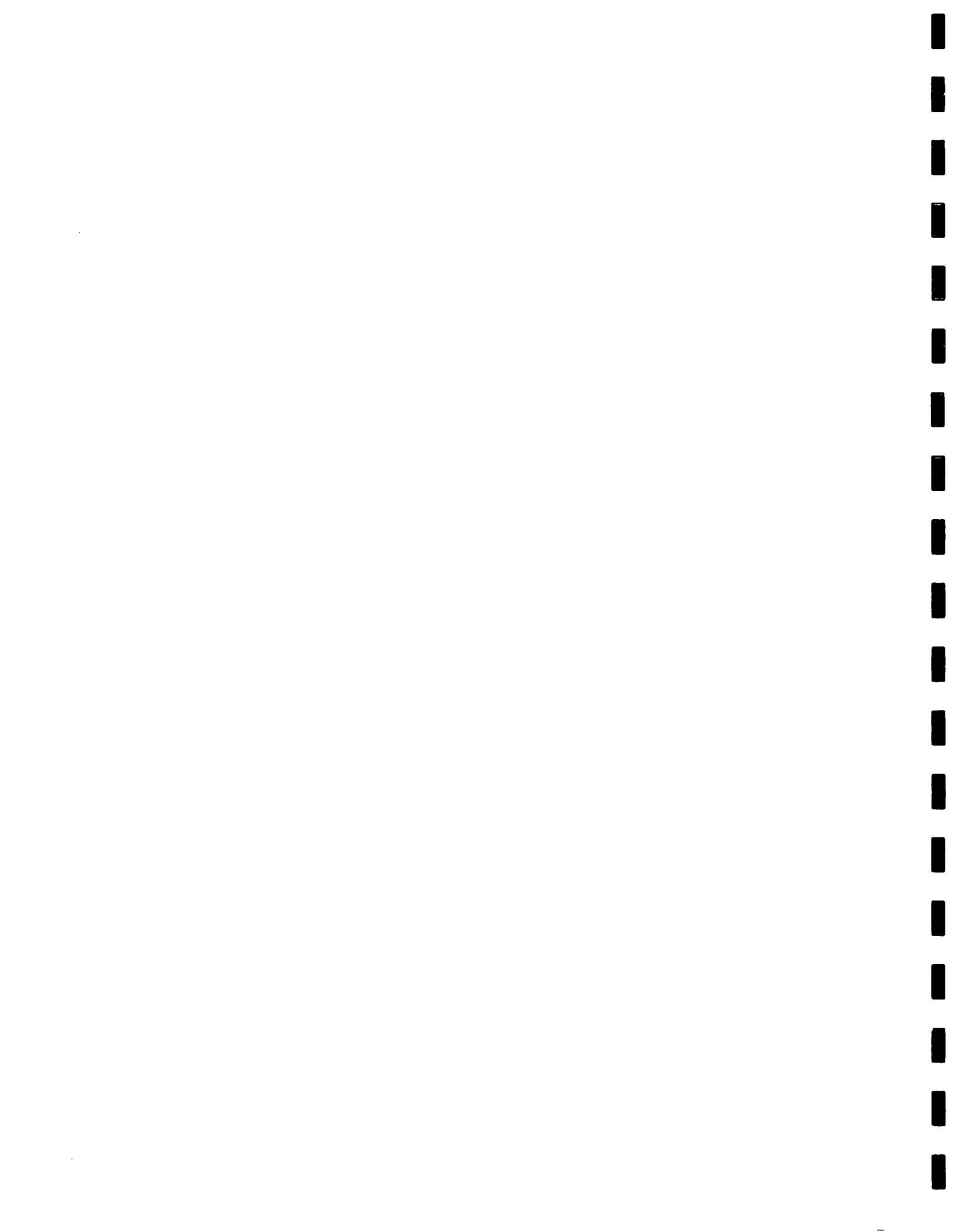


APPENDIX A



APPENDIX A

MONITORING WELL INSPECTION REPORT



EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: The Village of Hartford (Hartford Working Group) Date(s) of Inspection: 4/20/04
 Project No.: 15-03095 Field Personnel: A. Schultz / J. Campbell

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope													
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)								Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilities Access
MP-7D	N/A	20.64	-	1 PVC	yes gate	Y			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		
MP-5S	N/A	DRY	9.65	1 PVC	yes gate	Y			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		
MP-5D	N/A	20.38	-	1 PVC	yes gate	Y			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		
MP-6S	N/A	DRY	9.81	1 PVC	yes gate	Y			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		
MP-6D	N/A	20.40	-	1 PVC	yes gate	Y			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		
HMW-30	N/A	31.29	-	2 PVC	Y Y				Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	N	-		
HMW-31	N/A	31.27	-	2 PVC	Y Y				Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	N	-		
HMW-32	N/A	31.11	-	2 PVC	Y Y				Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	N	-		
HMW-33	N/A	31.27	-	2 PVC	Y Y				Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	Y	-		
HMW-7	N/A	24.49	-	2 PVC	Y Y				Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	N	Y		
HMW-8	30.43	32.86	-	2 PVC	Y Y				Y N Y	Y N Y	Y	Y N Y	Y	Y N Y	-	-	-	-	-	N	-		
HB-16	32.15	32.86	40.3	2 PVC	N Y	X N N							NNNN		NNNN	-	-	-	-	-	N	-	
HMW-13	N/A	18.70	19.0	2 PVC	Y Y	X Y N			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	Y		
HMW-14	31.43	32.44	-	2 PVC	Y Y	X Y N			Y	Y N N	Y	Y N N	Y	Y N N	-	-	-	-	-	N	-		

ADDITIONAL COMMENTS: HMW-7 (PVC riser is loose /surficial debris possibly down well)

HMW-13 (water level is probably from condensation in screen cap).

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: The Village of Hartford (Hartford Working Group) Date(s) of Inspection: 4/20/04
Project No.: 15-03095 Field Personnel: A. Schultz / J. Campbell

WELL INTEGRITY INFORMATION

ADDITIONAL COMMENTS: On HMW-27 EWSR Minut Trolf present in well so no DTW/DTP was taken at time of inspection

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: The Village of Hartford (Hartford Working Group) Date(s) of Inspection: 4/21/04
 Project No.: 15-03095 Field Personnel: A. Schultz

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Away From Well	Facilities Access	Standing Water	Additional Comments Below									
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)												Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present		
MP-8D	21.64	21.73	—	1 PVC	yes-gate	Y	—	Y Y N N	Y	—	—	—	—	—	—	—	—	—	—	—	N	—	
MP-9D	20.89	20.90	—	1 PVC	yes-gate	Y	—	Y Y N N	Y	Y	—	—	—	—	—	—	—	—	—	—	—	Y	—
HB-33	—	29.48	—	2 PVC	Y	Y	N	—	—	—	—	—	—	—	—	—	—	—	—	—	—	N	—
HMW-20	30.00	33.31	—	2 PVC	Y	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	—
HB-37	—	32.03	—	2 PVC	N	Y	Y Y N	—	—	—	—	—	—	—	—	—	—	—	—	—	—	N	—
MP-13S	N/A	8.38	—	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	—
MP-13D	N/A	DRY	27.45	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	Y	—
MP-14S	N/A	9.04	9.08	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	X
MP-14D	N/A	DRY	26.68	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	Y	—
MP-15S	N/A	9.04	—	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	—
MP-15D	N/A	DRY	—	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	Y	—
MP-16S	N/A	DRY	9.53	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	—
MP-16D	N/A	DRY	27.43	1 PVC	N	Y	—	Y Y N Y	Y	Y	N	N	—	—	—	—	—	—	—	—	—	N	—
HB-38	N/A	29.36	—	2 PVC	N	Y	Y Y N	—	—	—	—	—	—	—	—	—	—	—	—	—	—	N	—

ADDITIONAL COMMENTS: MP-14S (Well is probably DRY - water may be from condensation in screen cap)

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Working Group

Project No.: 15-03095

Date(s) of Inspection:

4/21/04

Field Personnel:

A. Schultz

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Away From Well	Facilities Access	Standing Water	Additional Comment(s) Below							
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)																		
HMW-26	N/A	24.64	—	2	PVC	Y	Y	—	—	Y	Y	N	Y	Y	N	N	—	—	—	Y	
HMW-25	N/A	27.34	—	2	PVC	Y	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
RW-1	N/A	33.93	—	36"	Ticon	N	Y	Y	Y	—	—	—	—	—	—	—	—	—	—	—	N
HMW-19	32.29	33.29	—	2	PVC	Y	Y	—	—	Y	Y	N	N	Y	Y	N	N	—	—	—	N
HMW-18	32.61	33.06	—	2	PVC	Y	Y	—	—	Y	Y	Y	N	Y	Y	N	N	—	—	—	N
HB-31	—	33.25	—	2	PVC	Y	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-10S	N/A	DRY	9.61	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-12D	N/A	19.50	—	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-11S	N/A	DRY	9.45	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-11D	N/A	19.62	—	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-10S	N/A	DRY	9.65	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
MP-10D	N/A	19.27	—	1	PVC	N	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N
HMW-28	N/A	29.69	—	2	PVC	Y	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y
HMW-29	N/A	28.70	—	2	PVC	Y	Y	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	N

ADDITIONAL COMMENTS: RW-1 in gated area / HMW-18 (TOC almost level w/ ground surface)

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: The Village of Hartford
 Project No.: 15-03695

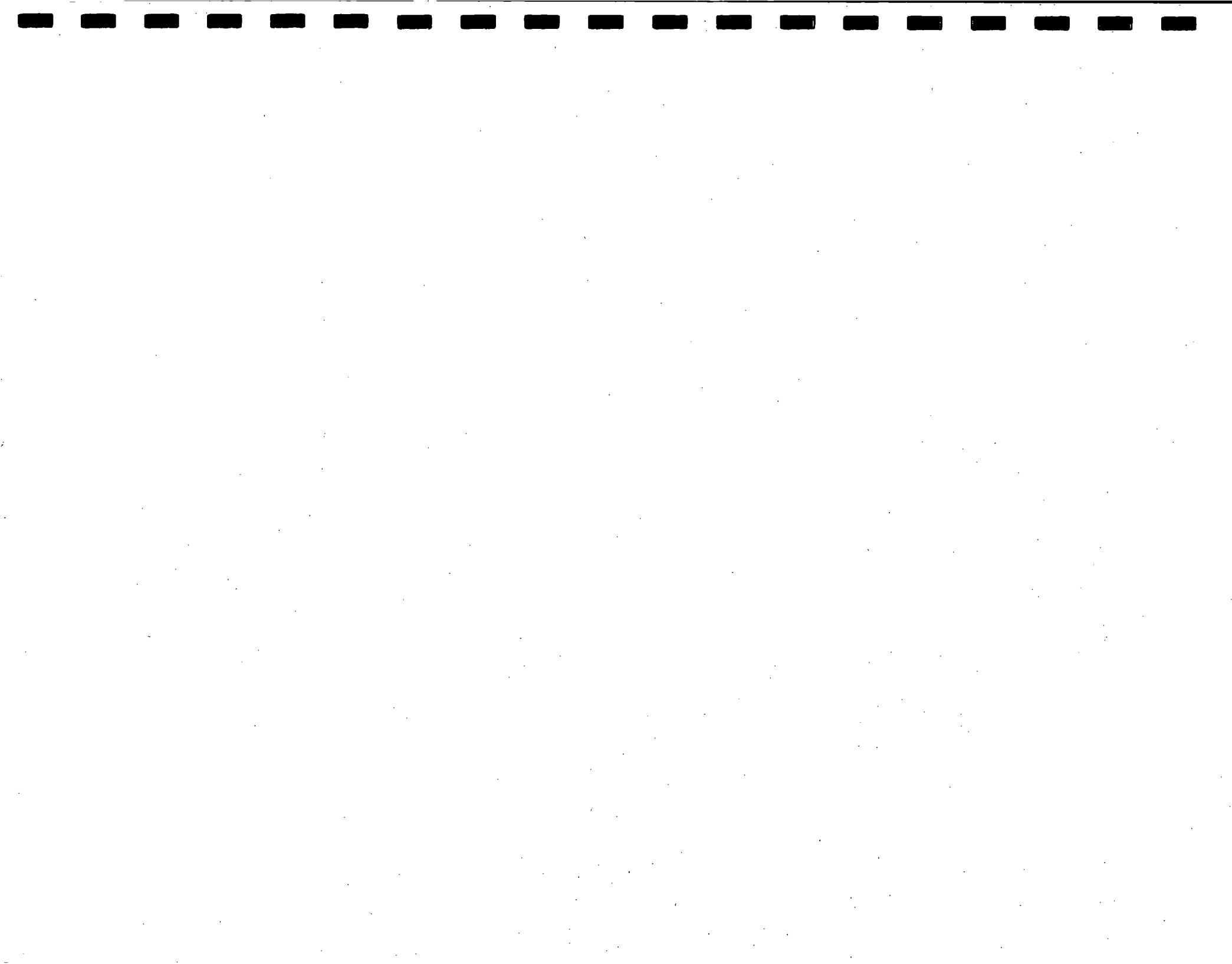
Date(s) of Inspection: 4/20/04

Field Personnel: A. Schultz / J. Campbell

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Additional Comment(s) Below															
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)									Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place
RW-2 ^{res}	32.28	33.68	—	3 ⁶	Steel	yes-gate	Y	Y	N	—	—	—	—	—	—	—	—	—	Y	N	N	N	Y	N	—	
HMW-3	sheen	26.60	—	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HMW-4	—	12.01	—	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HMW-02	29.96	30.65	—	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	N	Y	N	Y	Y	N	N	—	—	N	—
HMW-01	N/A ^{res}	19.50	—	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	N	—
HMW-09	N/A ^{res}	DRY	23.25	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HMW-10	30.47	31.76	—	2	PVC	Y	Y	Y	N	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	Y
RW-3	34.34	35.48	—	4	PVC	yes-gate	Y	Y	Y	N	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HB-32	N/A	31.11	—	4	PVC	yes-gate	Y	Y	Y	N	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HMW-21	N/A	21.42	—	2	PVC	Y	Y	—	—	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
HMW-22	31.25	31.42	—	2	PVC	Y	Y	—	—	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
MP-9S	N/A	7.70	—	1	PVC	yes-gate	Y	—	—	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
MP-8S	N/A	DRY	9.88	1	PVC	yes-gate	Y	—	—	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—
MP-7S	N/A	5.41	—	1	PVC	yes-gate	Y	—	—	—	—	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	N	—

ADDITIONAL COMMENTS: HMW-10 (PVC riser is loose)



APPENDIX B

APPENDIX B

APPENDIX B

SUMMARY OF INDICATOR PARAMETER MEASUREMENTS OBTAINED DURING FIRST QUARTER APRIL 2004 SAMPLING EVENT

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT-HMW-25-4-22-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORT WORKING GROUP
 Site Name: HARTFORT
 Well ID: HMW-25

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	MICROPURGE		
Tubing Type:	PVC		
Tubing Diam:	0.5	[cm]	
Tubing Length:	11	[m]	
Well Depth:	12	[m]	
Well Diam:	5	[cm]	
Screen Len:	4	[cm]	
Screen Depth:	7	[m]	
Pump Inlet Depth:	0	[cm]	
Water Level (TOC):	8	[m]	
Pump Level (TOC):	10	[m]	

Final Pumping Rate:	200	[mL/min]	
Stable Draw Down:	0	[m]	
Total Volume Formula:	Volume = cup (200 mL) + tubing (2.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)		
Calculated Total Volume:	119.16	[mL]	
Actual Total Volume:	119.16	[mL]	
Calculated Measurement Interval:	36	[sec]	
Actual Measurement Interval:	36	[sec]	

Start date/time:	4/22/2004	8:17:42	
End date/time:	4/22/2004	8:29:39	
Total Time:	30:59:20		

Reading #	pH [pH]	Variance	ORP	Variance	DO x	Variance	Cond	Variance	Turb	Variance	Temp	Variance	Time
4	6.55	0	-20.56	-0.3	1444.34	4.89	890.55	0.34	5.96	-0.09	15.57	-0.01	8:26:46
3	6.55	0	-21.42	-0.86	1414.59	-29.75	891.41	0.85	5.08	-0.88	15.58	0.01	8:27:22
2	6.55	0	-21.97	-0.56	1393.84	-20.76	891.58	0.17	4.81	-0.27	15.58	0	8:27:59
1	6.55	0	-22.48	-0.51	1381.06	-12.77	893.47	1.89	5.9	1.09	15.58	0	8:28:35
0	6.55	0	-23.25	-0.77	1372.69	-8.37	893.3	-0.17	3.93	-1.98	15.58	0	8:29:11

pH Min:	6.55
pH Max:	6.55
ORP Min:	-23.25
ORP Max:	-20.56

DO Min:	1372.69
DO Max:	1444.34
Cond Min:	890.55
Cond Max:	893.47
Turb Min:	3.93
Turb Max:	5.96
Temp Min:	15.57
Temp Max:	15.58

Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	4/23/2004	15:17:05
Report from file:	...HARTFORT WORKING GROUP-HARTFORT-HMW-25-4-22-2004.flo.bin	
Win-Situ Version	4.41	

Serial number:	30853
Firmware Version	1.3
Unit name:	MP Troll 9000

Test name:	LowFlow	
------------	---------	--

Test defined on:	4/22/2004	8:17:42
Test started on:	4/22/2004	8:17:42
Test stopped on:	N/A	N/A
Test extracted on:	N/A	N/A

Data gathered using Event testing		
Time between data points:	0.0 Seconds.	
Time between default storages:	0.0 Seconds.	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	20	

TOTAL DATA SAMPLES	20	
--------------------	----	--

Channel number [1]		
Measurement type:	Temperature	
Channel name:		

Channel number [3]		
Measurement type:	Barometric Pressure	
Channel name:		

Channel number [4]		
Measurement type:	Turbidity	
Channel name:		

Channel number [5]		
--------------------	--	--

Measurement type: Battery Voltage

Channel name:

Channel number [11]

Measurement type: ORP

Channel name:

Channel number [12]

Measurement type: pH

Channel name:

Channel number [25]

Measurement type: Dissolved Oxygen

Channel name:

Date	Time	ET (sec)	Chan[1] Fahrenheit	Chan[3] Inches Hg	Chan[4] NTU	Chan[5] Volts	Chan[11] millivolts	Chan[12] pH	Chan[25] ug/L
4/22/2004	8:17:42	0	59.82	29.494	7.8	2.606	-9	6.54	1718
4/22/2004	8:18:18	36	58.58	29.494	11.4	2.606	-10	6.55	2007
4/22/2004	8:18:54	72	59.54	29.494	12.2	2.606	-11	6.54	2018
4/22/2004	8:19:29	107	59.75	29.495	7.5	2.606	-12	6.55	1967
4/22/2004	8:20:06	144	59.77	29.495	6.2	2.606	-14	6.54	1847
4/22/2004	8:20:42	180	59.87	29.496	9.5	2.606	-15	6.54	1707
4/22/2004	8:21:18	216	59.91	29.495	5.7	2.606	-17	6.55	1637
4/22/2004	8:21:55	253	59.87	29.494	6.3	2.606	-18	6.55	1588
4/22/2004	8:22:31	289	59.98	29.494	4.5	2.606	-18	6.55	1529
4/22/2004	8:23:08	326	59.97	29.494	4.5	2.606	-18	6.55	1516
4/22/2004	8:23:44	362	60.01	29.494	7.2	2.606	-19	6.55	1519
4/22/2004	8:24:21	399	59.98	29.494	5.8	2.606	-19	6.55	1486
4/22/2004	8:24:56	434	59.97	29.494	4	2.606	-19	6.55	1470
4/22/2004	8:25:32	470	60.03	29.494	5.2	2.606	-20	6.55	1459
4/22/2004	8:26:09	507	60.05	29.495	6	2.606	-20	6.55	1441
4/22/2004	8:26:46	544	60.03	29.495	6	2.606	-21	6.55	1446
4/22/2004	8:27:22	580	60.04	29.496	5.1	2.606	-21	6.55	1416
4/22/2004	8:27:59	617	60.04	29.496	4.8	2.606	-22	6.55	1396
4/22/2004	8:28:35	653	60.04	29.496	5.9	2.606	-22	6.55	1383
4/22/2004	8:29:11	689	60.04	29.497	3.9	2.606	-23	6.55	1375

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT-HMW-26-4-22-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLATON GROUP SERVICES
 Project Name: HARTFORT WORKING GROUP
 Site Name: HARTFORT
 Well ID: HMW-26

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	MICROPURGE		
Tubing Type:	PVC		
Tubing Diam:	0.5	[cm]	
Tubing Length:	11	[m]	
Well Depth:	12	[m]	
Well Diam:	5	[cm]	
Screen Len:	4	[cm]	
Screen Depth:	7.5	[m]	
Pump Inlet Depth:	0	[cm]	
Water Level (TOC):	7	[m]	
Pump Level (TOC):	10	[m]	

Final Pumping Rate:	200	[mL/min]	
Stable Draw Down:	0	[m]	
Total Volume Formula:	Volume = cup (200 mL) + tubing (2.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)		
Calculated Total Volume:	119.16	[mL]	
Actual Total Volume:	119.16	[mL]	
Calculated Measurement Interval:	36	[sec]	
Actual Measurement Interval:	36	[sec]	

Start date/time:	4/22/2004	10:53:29	
End date/time:	4/22/2004	11:02:44	
Total Time:	28:24:14		

Reading #	pH	ORP	DO	Cond	Turb	Temp							
	[pH]	[mV]	[ug/L]	[uS/cm]	[NTU]	[C]							
4	6.59	0	-127.26	-1.11	3122.58	95.64	1412.6	3	124.2	8.07	16.13	0.04	11:00:09
3	6.59	0	-128.62	-1.37	3093.64	-28.93	1412.17	-0.43	106.68	-17.52	16.11	-0.02	11:00:46
2	6.59	0	-129.69	-1.07	3058.57	-35.07	1412.6	0.43	108.04	1.36	16.1	-0.01	11:01:23
1	6.59	0	-130.8	-1.11	3010.5	-48.07	1412.17	-0.43	102.56	-5.48	16.09	0	11:02:00
0	6.59	0	-131.87	-1.07	2963.92	-46.58	1410.45	-1.72	88.6	-13.96	16.11	0.01	11:02:36

pH Min:	6.59
pH Max:	6.59
ORP Min:	-131.87
ORP Max:	-127.26

~ DO Min:	2963.92
DO Max:	3122.58
Cond Min:	1410.45
Cond Max:	1412.6
Turb Min:	88.6
Turb Max:	124.2
Temp Min:	16.09
Temp Max:	16.13

Device Record:

In-Situ Inc.	Troll 9000 Profiler XP
Report generated:	4/23/2004 15:17:50
Report from file:	..\HARTFORT WORKING GROUP-HARTFORT-HMW-26-4-22-2004.flo.bin
Win-Situ Version	4.41

Serial number:	30853
Firmware Version	1.3
Unit name:	MP Troll 9000

Test name:	LowFlow
------------	---------

Test defined on:	4/22/2004 10:53:29
Test started on:	4/22/2004 10:53:29
Test stopped on:	N/A N/A
Test extracted on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0 Seconds
Time between default storages:	0.0 Seconds
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Fahrenheit
Number of data samples:	16

TOTAL DATA SAMPLES	16
--------------------	----

Channel number [1]	
Measurement type:	Temperature
Channel name:	

Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	

Channel number [4]	
Measurement type:	Turbidity
Channel name:	

Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	

Channel number [11]

Measurement type: ORP

Channel name:

Channel number [12]

Measurement type: pH

Channel name:

Channel number [25]

Measurement type: Dissolved Oxygen

Channel name:

Date	Time	ET (sec)	Chan[1] Fahrenheit	Chan[3] In Hg	Chan[4] NTU	Chan[5] Volts	Chan[11] millivolts	Chan[12] pH	Chan[25] ug/L
4/22/2004	10:53:29	0	60.05	29.521	73.9	2.593	-106	6.75	6772
4/22/2004	10:54:06	37	60.9	29.521	158.6	2.593	-108	6.61	3325
4/22/2004	10:54:42	73	60.93	29.52	135.1	2.606	-110	6.6	2066
4/22/2004	10:55:18	109	60.98	29.52	175.6	2.606	-113	6.59	1508
4/22/2004	10:55:55	146	60.99	29.518	166.4	2.593	-116	6.59	1190
4/22/2004	10:56:30	181	60.9	29.526	181.2	2.606	-119	6.59	1025
4/22/2004	10:57:06	217	61.02	29.521	161.9	2.606	-121	6.59	891
4/22/2004	10:57:43	254	61	29.526	124.7	2.593	-123	6.6	1091
4/22/2004	10:58:19	290	60.92	29.523	139.3	2.593	-124	6.59	1671
4/22/2004	10:58:56	327	60.96	29.523	108.5	2.606	-125	6.59	2392
4/22/2004	10:59:32	363	60.97	29.524	116.1	2.593	-126	6.59	3032
4/22/2004	11:00:09	400	61.03	29.523	124.2	2.606	-127	6.59	3128
4/22/2004	11:00:46	437	60.99	29.524	106.7	2.593	-129	6.59	3099
4/22/2004	11:01:23	474	60.98	29.525	108	2.606	-130	6.59	3064
4/22/2004	11:02:00	511	60.97	29.525	102.6	2.606	-131	6.59	3016
4/22/2004	11:02:36	547	60.99	29.528	88.6	2.593	-132	6.59	2969

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT-HMW-28-4-22-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLATON GROUP SERVICES
 Project Name: HARTFORT WORKING GROUP
 Site Name: HARTFORT
 Well ID: HMW-28

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	MICROPURGE		
Tubing Type:	PVC		
Tubing Diam:	0.5	[cm]	
Tubing Length:	11	[m]	
Well Depth:	12	[m]	
Well Diam:	5	[cm]	
Screen Len:	4	[cm]	
Screen Depth:	8	[m]	
Pump Inlet Depth:	0	[cm]	
Water Level (TOC):	9	[m]	
Pump Level (TOC):	10	[m]	

Final Pumping Rate:	200	[mL/min]	
Stable Draw Down:	0	[m]	
Total Volume Formula:	Volume = cup (200 mL) + tubing (2.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)		
Calculated Total Volume:	119.16	[mL]	
Actual Total Volume:	119.16	[mL]	
Calculated Measurement Interval:	36	[sec]	
Actual Measurement Interval:	36	[sec]	

Start date/time:	4/22/2004	13:03:28	
End date/time:	4/22/2004	13:10:23	
Total Time:	26:15:27		

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.54	-0.01	-95.91	-2.27	4915.05	-68.61	966.55	0.2	73.11	31.01	15.38	-0.07	13:07:42
3	6.54	0	-98.3	-2.39	4819.07	-95.98	967.96	1.41	92.92	19.81	15.42	0.04	13:08:19
2	6.54	0	-100.14	-1.84	4612.32	-206.75	965.75	-2.21	102.37	9.45	15.4	-0.02	13:08:54
1	6.54	0	-101.85	-1.71	4484.5	-127.82	968.57	2.82	104.36	1.99	15.46	0.06	13:09:31
0	6.54	0	-103.56	-1.71	4414.62	-69.88	968.36	-0.2	100.05	-4.31	15.45	-0.01	13:10:08

pH Min:	6.54
pH Max:	6.54
ORP Min:	-103.56

ORP Max:	-95.91
DO Min:	4414.62
DO Max:	4915.05
Cond Min:	965.75
Cond Max:	968.57
Turb Min:	73.11
Turb Max:	104.36
Temp Min:	15.38
Temp Max:	15.46

Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	4/23/2004	15:18:57
Report from file:	...\HARTFORT WORKING GROUP-HARTFORT-HMW-28-4-22-2004.flo.bin	
Win-Situ Version	4.41	
Serial number:	30853	
Firmware Version	1.3	
Unit name:	MP Troll 9000	

Test name:	LowFlow	
Test defined on:	4/22/2004	13:03:28
Test started on:	4/22/2004	13:03:28
Test stopped on:	N/A	N/A
Test extracted on:	N/A	N/A

Data gathered using Event testing		
Time between data points:	0.0 Seconds	
Time between default storages:	0.0 Seconds	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	12	

TOTAL DATA SAMPLES	12	
--------------------	----	--

Channel number [1]		
Measurement type:	Temperature	
Channel name:		

Channel number [3]		
Measurement type:	Barometric Pressure	
Channel name:		

Channel number [4]		
Measurement type:	Turbidity	
Channel name:		

Channel number [5]
Measurement type:
Channel name:

Battery Voltage

Channel number [11]
Measurement type:
Channel name:

ORP

Channel number [12]
Measurement type:
Channel name:

pH

Channel number [25]
Measurement type:
Channel name:

Dissolved Oxygen

Date	Time	ET (sec)	Chan[1] Fahrenheit	Chan[3] In Hg	Chan[4] NTU	Chan[5] Volts	Chan[11] millivolts	Chan[12] pH	Chan[25] ug/L
4/22/2004	13:03:28	0	58.82	29.528	8.8	2.593	-69	6.87	8040
4/22/2004	13:04:04	36	59.52	29.529	10.9	2.593	-69	6.64	5870
4/22/2004	13:04:40	72	59.69	29.529	22.3	2.593	-76	6.58	5483
4/22/2004	13:05:16	108	59.75	29.529	18.6	2.593	-83	6.57	5329
4/22/2004	13:05:53	145	59.58	29.53	27.2	2.593	-87	6.55	5241
4/22/2004	13:06:29	181	59.77	29.531	41.1	2.593	-91	6.55	5093
4/22/2004	13:07:06	218	59.81	29.532	42.1	2.593	-94	6.55	4990
4/22/2004	13:07:42	254	59.68	29.531	73.1	2.593	-96	6.54	4921
4/22/2004	13:08:19	291	59.75	29.531	92.9	2.593	-98	6.54	4825
4/22/2004	13:08:54	326	59.72	29.531	102.4	2.593	-100	6.54	4618
4/22/2004	13:09:31	363	59.82	29.531	104.4	2.593	-102	6.54	4490
4/22/2004	13:10:08	400	59.81	29.531	100	2.593	-104	6.54	4420

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORD-HMW-29-4-22-2004.flw. To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	NORMAN BOLIVAR												
Company Name:	CLATON GROUP SERVICES												
Project Name:	HARTFORT WORKING GROUP												
Site Name:	HARTFORT												
Well ID:	HMW-29												
pH Sensor:	Installed	Target Value	0.1	[pH]									
ORP Sensor:	Installed	Target Value	0	[mV]									
DO Sensor:	Installed	Target Value	0	[ug/L]									
Cond Sensor:	Installed	Target Value	1	[uS/cm]									
Turb Sensor:	Installed	Target Value	0.1	[NTU]									
Pump Model/Type:	MICROPURGE												
Tubing Type:	PVC												
Tubing Diam:	0.5	[cm]											
Tubing Length:	11	[m]											
Well Depth:	12	[m]											
Well Diam:	5	[cm]											
Screen Len:	4	[cm]											
Screen Depth:	8	[m]											
Pump Inlet Depth:	0	[cm]											
Water Level (TOC):	8.5	[m]											
Pump Level (TOC):	10	[m]											
Final Pumping Rate:	200	[mL/min]											
Stable Draw Down:	0	[m]											
Total Volume Formula:	Volume = cup (200 mL) + tubing (2.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)												
Calculated Total Volume:	119.16	[mL]											
Actual Total Volume:	119.16	[mL]											
Calculated Measurement Interval:	36	[sec]											
Actual Measurement Interval:	36	[sec]											
Start date/time:	4/22/2004	14:17:40											
End date/time:	4/22/2004	14:22:43											
Total Time:	24:57:24												
Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.66	-0.01	-115.91	-4.57	2365.63	-544.94	928.66	-2.23	767.78	162.4	15.59	-0.02	14:20:05
3	6.66	0	-119.67	-3.76	1954.93	-410.7	927.92	-0.74	671.84	-95.94	15.63	0.04	14:20:42
2	6.66	0	-122.45	-2.78	1796.38	-158.55	928.1	0.19	637.34	-34.5	15.63	0	14:21:19
1	6.66	-0.01	-124.33	-1.88	1763.71	-32.67	928.1	0	737.29	99.95	15.62	-0.01	14:21:55
0	6.66	0	-126.13	-1.79	1666.42	-97.3	929.22	1.11	780.25	42.96	15.64	0.01	14:22:32
pH Min:	6.66												
pH Max:	6.66												
ORP Min:	-126.13												
ORP Max:	-115.91												

DO Min:	1666.42
DO Max:	2365.63
Cond Min:	927.92
Cond Max:	929.22
Turb Min:	637.34
Turb Max:	780.25
Temp Min:	15.59
Temp Max:	15.64

Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	4/23/2004	15:15:14
Report from file:	...\HARTFORD WORKING GROUP-HARTFORD-HMW-29-4-22-2004.flo.bin	
Win-Situ Version	4.41	
Serial number:	30853	
Firmware Version	1.3	
Unit name:	MP Troll 9000	

Test name:	LowFlow	
Test defined on:	4/22/2004	14:17:40
Test started on:	4/22/2004	14:17:40
Test stopped on:	N/A	N/A
Test extracted on:	N/A	N/A

Data gathered using Event testing		
Time between data points:	0.0 Seconds	
Time between default storages:	0.0 Seconds	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	9	

TOTAL DATA SAMPLES	9
--------------------	---

Channel number [1]	
Measurement type:	Temperature
Channel name:	

Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	

Channel number [4]	
Measurement type:	Turbidity
Channel name:	

Channel number [5]	
--------------------	--

Measurement type: Battery Voltage

Channel name:

Channel number [11]

Measurement type: ORP

Channel name:

Channel number [12]

Measurement type: pH

Channel name:

Channel number [25]

Measurement type: Dissolved Oxygen

Channel name:

Date	Time	ET (sec)	Chan[1] Fahrenheit	Chan[3] In Hg	Chan[4] NTU	Chan[5] Volts	Chan[11] millivolts	Chan[12] pH	Chan[25] ug/L
4/22/2004	14:17:40	0	59.37	29.57	280.4	2.593	-94	6.94	8419
4/22/2004	14:18:15	35	59.85	29.571	473.4	2.593	-97	6.73	5053
4/22/2004	14:18:52	72	60.02	29.572	621.1	2.593	-104	6.68	3644
4/22/2004	14:19:28	108	60.1	29.573	605.4	2.593	-111	6.67	2915
4/22/2004	14:20:05	145	60.06	29.575	767.8	2.593	-116	6.66	2369
4/22/2004	14:20:42	182	60.13	29.576	671.8	2.593	-120	6.66	1958
4/22/2004	14:21:19	219	60.13	29.577	637.3	2.593	-122	6.66	1799
4/22/2004	14:21:55	255	60.12	29.578	737.3	2.593	-124	6.66	1766
4/22/2004	14:22:32	292	60.14	29.579	780.2	2.593	-126	6.66	1669

APPENDIX C

APPENDIX C

APPENDIX C

LABORATORY ANALYTICAL REPORT-FIRST QUARTER APRIL 2004 SAMPLING EVENT



TEKLAB, INC.

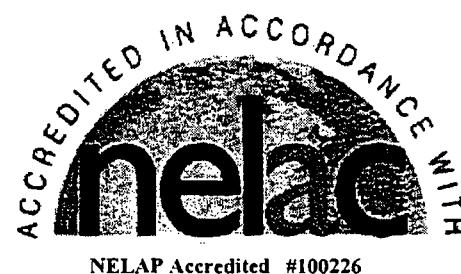
5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

May 10, 2004

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX: (630) 795-1130



RE: Hartford Working Group 15-03095.15-004

OrderNo. 04040559

Dear Ken Comire:

TEKLAB, INC received 8 samples on 4/23/04 8:23:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford Working Group 15-03095.15-004
LabOrder: 04040559
Report Date: May 10, 2004

CASE NARRATIVE

This is a revised report to include Bis(2-ethylhexyl)phthalate and to include Method 8270 in the Analytical QC Summary Report. Please replace your original report for this work order with this revised report.

Additional sodium hydroxide needed in samples HMW-26, HMW-27, and DUP-01; additional nitric acid needed in sample HMW-29 upon arrival at the laboratory.

Qualifiers			
DF	- Dilution Factor	B	- Analyte detected in the associated Method Blank
RL	- Reporting Limit	J	- Analyte detected below quantitation limits
ND	- Not Detected at the Reporting Limit	R	- RPD outside accepted recovery limits
Surr	- Surrogate Standard added by lab	S	- Spike Recovery outside accepted recovery limits
TNTC	- Too numerous to count	*	- Value exceeds Maximum Contaminant Level
IDPH	- Illinois Department of Public Health	NELAP	- IL ELAP and NELAP Accredited Field of Testing
		E	- Value above quantitation range
		H	- Holding time exceeded
		D	- Diluted out of sample
		MI	- Matrix interference
		DNI	Did Not Ignite

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-001
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-25/040422
Collection Date: 4/22/04 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.238	mg/L	1	4/28/04 4:11:53 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 4:11:53 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 4:11:53 PM	SAM
Chromium	NELAP	0.010	J	0.006	mg/L	1	4/28/04 4:11:53 PM	SAM
Cobalt	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:11:53 PM	SAM
Nickel	NELAP	0.010		0.013	mg/L	1	4/28/04 4:11:53 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:11:53 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:11:53 PM	SAM
Zinc	NELAP	0.010		0.241	mg/L	1	4/28/04 4:11:53 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	J	0.002	mg/L	1	5/3/04 JMF
Arsenic	7060A	NELAP	0.003		< 0.003	mg/L	1	5/3/04 JMF
Lead	7421	NELAP	0.002		< 0.002	mg/L	1	4/28/04 JMF
Selenium	7740	NELAP	0.006		< 0.006	mg/L	1	5/4/04 SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-001
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-25/040422
Collection Date: 4/22/04 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 9:14:00 AM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		92.0	%REC	1	4/28/04 9:14:00 AM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		94.0	%REC	1	4/28/04 9:14:00 AM	DMH
Surr: 2-Fluorophenol		4.15-86.6		52.0	%REC	1	4/28/04 9:14:00 AM	DMH
Surr: Nitrobenzene-d5		30.7-115		90.0	%REC	1	4/28/04 9:14:00 AM	DMH
Surr: p-Terphenyl-d14		4.96-141		92.0	%REC	1	4/28/04 9:14:00 AM	DMH
Surr: Phenol-d5		5.75-8		39.0	%REC	1	4/28/04 9:14:00 AM	DMH
<u>SW-846 METHOD 7470A TOTAL</u>								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
<u>SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
<u>SW-846 METHOD 9010, 9012A TOTAL</u>								
Cyanide		720	0.007	< 0.007	mg/L	1	4/26/04 9:44:56 PM	SMR
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Trichloroethylene	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 6:05:00 PM	DEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-001
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-25/040422
Collection Date: 4/22/04 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		70-136		118	%REC	1	4/26/04 6:05:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		98.4	%REC	1	4/26/04 6:05:00 PM	DEK
Surr: Dibromofluoromethane		67-138		109	%REC	1	4/26/04 6:05:00 PM	DEK
Surr: Toluene-d8		80-124		98.8	%REC	1	4/26/04 6:05:00 PM	DEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-002
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-26/040422
Collection Date: 4/22/04 2:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.242	mg/L	1	4/28/04 4:27:08 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 4:27:08 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 4:27:08 PM	SAM
Chromium	NELAP	0.010	J	0.004	mg/L	1	4/28/04 4:27:08 PM	SAM
Cobalt	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:27:08 PM	SAM
Nickel	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:27:08 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:27:08 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:27:08 PM	SAM
Zinc	NELAP	0.010		0.118	mg/L	1	4/28/04 4:27:08 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	< 0.005	mg/L	1	5/3/04	JMF
Arsenic	7060A	NELAP	0.003	0.007	mg/L	1	5/3/04	JMF
Lead	7421	NELAP	0.002	0.003	mg/L	1	4/28/04	JMF
Selenium	7740	NELAP	0.006	< 0.006	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-002
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-26/040422
Collection Date: 4/22/04 2:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 9:51:00 AM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		90.0	%REC	1	4/28/04 9:51:00 AM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		94.0	%REC	1	4/28/04 9:51:00 AM	DMH
Surr: 2-Fluorophenol		4.15-86.6		51.0	%REC	1	4/28/04 9:51:00 AM	DMH
Surr: Nitrobenzene-d5		30.7-115		88.0	%REC	1	4/28/04 9:51:00 AM	DMH
Surr: p-Terphenyl-d14		4.96-141		86.0	%REC	1	4/28/04 9:51:00 AM	DMH
Surr: Phenol-d5		5-75.8		39.0	%REC	1	4/28/04 9:51:00 AM	DMH
SW-846 METHOD 7470A TOTAL								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
SW-846 METHOD 9010, 9012A TOTAL								
Cyanide		720	0.007	< 0.007	mg/L	1	4/26/04 9:56:05 PM	SMR
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Tetrachloroethylene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Trichloroethylene	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 6:36:00 PM	DEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-002
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-26/040422
Collection Date: 4/22/04 2:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surf: 1,2-Dichloroethane-d4		70-136		118	%REC	1	4/26/04 6:36:00 PM	DEK
Surf: 4-Bromofluorobenzene		72-125		100	%REC	1	4/26/04 6:36:00 PM	DEK
Surf: Dibromofluoromethane		67-138		110	%REC	1	4/26/04 6:36:00 PM	DEK
Surf: Toluene-d8		80-124		98.8	%REC	1	4/26/04 6:36:00 PM	DEK

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-003
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-27/040422
Collection Date: 4/22/04 3:35:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.189	mg/L	1	4/28/04 4:32:15 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 4:32:15 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 4:32:15 PM	SAM
Chromium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:32:15 PM	SAM
Cobalt	NELAP	0.010	J	0.009	mg/L	1	4/28/04 4:32:15 PM	SAM
Nickel	NELAP	0.010		0.018	mg/L	1	4/28/04 4:32:15 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:32:15 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:32:15 PM	SAM
Zinc	NELAP	0.010		0.080	mg/L	1	4/28/04 4:32:15 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	< 0.005	mg/L	1	5/3/04	JMF
Arsenic	7060A	NELAP	0.003	J 0.002	mg/L	1	5/3/04	JMF
Lead	7421	NELAP	0.002	J 0.002	mg/L	1	4/28/04	JMF
Selenium	7740	NELAP	0.006	< 0.006	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-003
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-27/040422
Collection Date: 4/22/04 3:35:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 10:29:00 AM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		89.0	%REC	1	4/28/04 10:29:00 AM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		92.0	%REC	1	4/28/04 10:29:00 AM	DMH
Surr: 2-Fluorophenol		4.15-86.6		46.0	%REC	1	4/28/04 10:29:00 AM	DMH
Surr: Nitrobenzene-d5		30.7-115		86.0	%REC	1	4/28/04 10:29:00 AM	DMH
Surr: p-Terphenyl-d14		4.96-141		86.0	%REC	1	4/28/04 10:29:00 AM	DMH
Surr: Phenol-d5		5.75.8		35.0	%REC	1	4/28/04 10:29:00 AM	DMH
<u>SW-846 METHOD 7470A TOTAL</u>								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
<u>SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
<u>SW-846 METHOD 9010, 9012A TOTAL</u>								
Cyanide		720	0.007	< 0.007	mg/L	1	4/26/04 9:59:27 PM	SMR
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 7:07:00 PM	DEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-003
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-27/040422
Collection Date: 4/22/04 3:35:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4	70-136			118	%REC	1	4/26/04 7:07:00 PM	DEK
Surr: 4-Bromofluorobenzene	72-125			98.8	%REC	1	4/26/04 7:07:00 PM	DEK
Surr: Dibromofluoromethane	67-138			110	%REC	1	4/26/04 7:07:00 PM	DEK
Surr: Toluene-d8	80-124			99.0	%REC	1	4/26/04 7:07:00 PM	DEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-004
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-28/040422
Collection Date: 4/22/04 4:45:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.273	mg/L	1	4/28/04 4:37:21 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 4:37:21 PM	SAM
Cadmium	NELAP	0.002	J	0.001	mg/L	1	4/28/04 4:37:21 PM	SAM
Chromium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:37:21 PM	SAM
Cobalt	NELAP	0.010		0.014	mg/L	1	4/28/04 4:37:21 PM	SAM
Nickel	NELAP	0.010		0.032	mg/L	1	4/28/04 4:37:21 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:37:21 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:37:21 PM	SAM
Zinc	NELAP	0.010		0.084	mg/L	1	4/28/04 4:37:21 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	< 0.005	mg/L	1	5/3/04	JMF
Arsenic	7060A	NELAP	0.003	0.009	mg/L	1	5/3/04	JMF
Lead	7421	NELAP	0.002	0.008	mg/L	1	4/28/04	JMF
Selenium	7740	NELAP	0.006	0.011	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-004
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-28/040422
Collection Date: 4/22/04 4:45:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 11:06:00 AM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		88.0	%REC	1	4/28/04 11:06:00 AM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		90.0	%REC	1	4/28/04 11:06:00 AM	DMH
Surr: 2-Fluorophenol		4.15-86.6		46.0	%REC	1	4/28/04 11:06:00 AM	DMH
Surr: Nitrobenzene-d5		30.7-115		84.0	%REC	1	4/28/04 11:06:00 AM	DMH
Surr: p-Terphenyl-d14		4.96-141		82.0	%REC	1	4/28/04 11:06:00 AM	DMH
Surr: Phenol-d5		5-75.8		35.0	%REC	1	4/28/04 11:06:00 AM	DMH
SW-846 METHOD 7470A TOTAL								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
SW-846 METHOD 9010, 9012A TOTAL								
Cyanide		720	0.007	J	0.004	mg/L	1	4/26/04 10:02:26 PM
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 7:38:00 PM	DEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services

Client Project: Hartford Working Group 15-03095.15

WorkOrder: 04040559

Client Sample ID: HMW-28/040422

Lab ID: 04040559-004

Collection Date: 4/22/04 4:45:00 PM

Report Date: 10-May-04

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		70-136		118	%REC	1	4/26/04 7:38:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		98.0	%REC	1	4/26/04 7:38:00 PM	DEK
Surr: Dibromofluoromethane		67-138		109	%REC	1	4/26/04 7:38:00 PM	DEK
Surr: Toluene-d8		80-124		97.8	%REC	1	4/26/04 7:38:00 PM	DEK

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-005
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-29/040422
Collection Date: 4/22/04 5:55:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.268	mg/L	1	4/28/04 4:42:26 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 4:42:26 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 4:42:26 PM	SAM
Chromium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:42:26 PM	SAM
Cobalt	NELAP	0.010	J	0.006	mg/L	1	4/28/04 4:42:26 PM	SAM
Nickel	NELAP	0.010		0.023	mg/L	1	4/28/04 4:42:26 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:42:26 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 4:42:26 PM	SAM
Zinc	NELAP	0.010		0.136	mg/L	1	4/28/04 4:42:26 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony 7041	NELAP	0.005		< 0.005	mg/L	1	5/3/04	JMF
Arsenic 7060A	NELAP	0.003		0.007	mg/L	1	5/3/04	JMF
Lead 7421	NELAP	0.004		0.024	mg/L	2	4/28/04	JMF
Selenium 7740	NELAP	0.006		< 0.006	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-005
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-29/040422
Collection Date: 4/22/04 5:55:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 11:44:00 AM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		95.0	%REC	1	4/28/04 11:44:00 AM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		102	%REC	1	4/28/04 11:44:00 AM	DMH
Surr: 2-Fluorophenol		4.15-86.6		49.0	%REC	1	4/28/04 11:44:00 AM	DMH
Surr: Nitrobenzene-d5		30.7-115		92.0	%REC	1	4/28/04 11:44:00 AM	DMH
Surr: p-Terphenyl-d14		4.96-141		96.0	%REC	1	4/28/04 11:44:00 AM	DMH
Surr: Phenol-d5		5-75.8		38.0	%REC	1	4/28/04 11:44:00 AM	DMH
<u>SW-846 METHOD 7470A TOTAL</u>								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
<u>SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
<u>SW-846 METHOD 9010, 9012A TOTAL</u>								
Cyanide		720	0.007	J	0.003	mg/L	1	4/26/04 10:08:35 PM
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/28/04 12:18:00 PM	DEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-005
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: HMW-29/040422
Collection Date: 4/22/04 5:55:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		70-136		111	%REC	1	4/28/04 12:18:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		97.6	%REC	1	4/28/04 12:18:00 PM	DEK
Surr: Dibromofluoromethane		67-138		108	%REC	1	4/28/04 12:18:00 PM	DEK
Surr: Toluene-d8		80-124		98.4	%REC	1	4/28/04 12:18:00 PM	DEK

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-006
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: DUP-01/040422
Collection Date: 4/22/04
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B TOTAL</u>								
Barium	NELAP	0.005		0.198	mg/L	1	4/28/04 5:11:44 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 5:11:44 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 5:11:44 PM	SAM
Chromium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:11:44 PM	SAM
Cobalt	NELAP	0.010	J	0.008	mg/L	1	4/28/04 5:11:44 PM	SAM
Nickel	NELAP	0.010		0.018	mg/L	1	4/28/04 5:11:44 PM	SAM
Silver	NELAP	0.010	J	0.003	mg/L	1	4/28/04 5:11:44 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/29/04 9:49:32 AM	SAM
Zinc	NELAP	0.010		0.091	mg/L	1	4/28/04 5:11:44 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	< 0.005	mg/L	1	5/3/04	JMF
Arsenic	7060A	NELAP	0.003	J 0.001	mg/L	1	5/4/04	JMF
Lead	7421	NELAP	0.002	0.003	mg/L	1	4/28/04	JMF
Selenium	7740	NELAP	0.006	< 0.006	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Dibenz(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-006
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: DUP-01/040422
Collection Date: 4/22/04
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 12:22:00 PM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		89.0	%REC	1	4/28/04 12:22:00 PM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		92.0	%REC	1	4/28/04 12:22:00 PM	DMH
Surr: 2-Fluorophenol		4.15-86.6		47.0	%REC	1	4/28/04 12:22:00 PM	DMH
Surr: Nitrobenzene-d5		30.7-115		84.0	%REC	1	4/28/04 12:22:00 PM	DMH
Surr: p-Terphenyl-d14		4.96-141		90.0	%REC	1	4/28/04 12:22:00 PM	DMH
Surr: Phenol-d5		5-75.8		35.0	%REC	1	4/28/04 12:22:00 PM	DMH
<u>SW-846 METHOD 7470A TOTAL</u>								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
<u>SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
<u>SW-846 METHOD 9010, 9012A TOTAL</u>								
Cyanide		720	0.007	< 0.007	mg/L	1	4/26/04 10:12:34 PM	SMR
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Tetrachloroethylene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Trichloroethylene	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/28/04 12:48:00 PM	DEK

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-006
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: DUP-01/040422
Collection Date: 4/22/04
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		70-136		113	%REC	1	4/28/04 12:48:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		95.6	%REC	1	4/28/04 12:48:00 PM	DEK
Surr: Dibromofluoromethane		67-138		111	%REC	1	4/28/04 12:48:00 PM	DEK
Surr: Toluene-d8		80-124		98.8	%REC	1	4/28/04 12:48:00 PM	DEK

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-007
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: EQB-01/040422
Collection Date: 4/22/04 6:20:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B, TOTAL</u>								
Barium	NELAP	0.005	J	0.002	mg/L	1	4/28/04 5:16:51 PM	SAM
Beryllium	NELAP	0.001		< 0.001	mg/L	1	4/28/04 5:16:51 PM	SAM
Cadmium	NELAP	0.002		< 0.002	mg/L	1	4/28/04 5:16:51 PM	SAM
Chromium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
Cobalt	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
Nickel	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
Silver	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
Vanadium	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
Zinc	NELAP	0.010		< 0.010	mg/L	1	4/28/04 5:16:51 PM	SAM
<u>SW-846 3020A, GRAPHITE FURNACE TOTAL</u>								
Antimony	7041	NELAP	0.005	< 0.005	mg/L	1	5/3/04	JMF
Arsenic	7060A	NELAP	0.003	< 0.003	mg/L	1	5/3/04	JMF
Lead	7421	NELAP	0.002	< 0.002	mg/L	1	4/28/04	JMF
Selenium	7740	NELAP	0.006	< 0.006	mg/L	1	5/4/04	SRS
<u>SW-846 3510C, METHOD 8270C, SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Acenaphthene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Benzo(a)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Benzo(a)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Chrysene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Dimethyl phthalate		0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Fluoranthene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Fluorene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
m,p-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Naphthalene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
o-Cresol	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-007
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: EQB-01/040422
Collection Date: 4/22/04 6:20:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Phenol	NELAP	0.005		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Pyrene	NELAP	0.010		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Pyridine	NELAP	0.020		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Quinoline		0.005		ND	mg/L	1	4/28/04 1:00:00 PM	DMH
Surr: 2,4,6-Tribromophenol		23.8-133		97.0	%REC	1	4/28/04 1:00:00 PM	DMH
Surr: 2-Fluorobiphenyl		33.7-109		100	%REC	1	4/28/04 1:00:00 PM	DMH
Surr: 2-Fluorophenol		4.15-86.6		51.0	%REC	1	4/28/04 1:00:00 PM	DMH
Surr: Nitrobenzene-d5		30.7-115		94.0	%REC	1	4/28/04 1:00:00 PM	DMH
Surr: p-Terphenyl-d14		4.96-141		106	%REC	1	4/28/04 1:00:00 PM	DMH
Surr: Phenol-d5		5-75.8		39.0	%REC	1	4/28/04 1:00:00 PM	DMH
<u>SW-846 METHOD 7470A TOTAL</u>								
Mercury	NELAP	0.0002		< 0.0002	mg/L	1	4/27/04	SRS
<u>SW-846 METHOD 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	4/27/04	CJS
<u>SW-846 METHOD 9010, 9012A TOTAL</u>								
Cyanide		720	0.007	< 0.007	mg/L	1	4/26/04 10:15:56 PM	SMR
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Toluene	NELAP	5.0	J	1.7	µg/L	1	4/26/04 5:03:00 PM	DEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 5:03:00 PM	DEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-007
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: EQB-01/040422
Collection Date: 4/22/04 6:20:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		70-136		116	%REC	1	4/26/04 5:03:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		99.2	%REC	1	4/26/04 5:03:00 PM	DEK
Surr: Dibromofluoromethane		67-138		108	%REC	1	4/26/04 5:03:00 PM	DEK
Surr: Toluene-d8		80-124		99.2	%REC	1	4/26/04 5:03:00 PM	DEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04040559
Lab ID: 04040559-008
Report Date: 10-May-04

Client Project: Hartford Working Group 15-03095.15
Client Sample ID: Trip-01/040422
Collection Date: 4/19/04 2:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
2-Butanone	NELAP	50.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Benzene	NELAP	2.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Chloroform	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Styrene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Toluene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	4/26/04 5:34:00 PM	DEK
Surr: 1,2-Dichloroethane-d4		70-136		115	%REC	1	4/26/04 5:34:00 PM	DEK
Surr: 4-Bromofluorobenzene		72-125		98.4	%REC	1	4/26/04 5:34:00 PM	DEK
Surr: Dibromofluoromethane		67-138		109	%REC	1	4/26/04 5:34:00 PM	DEK
Surr: Toluene-d8		80-124		98.4	%REC	1	4/26/04 5:34:00 PM	DEK

CLIENT: Clayton Group Services

Work Order: 04040559

Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_TCN_S_AT

Sample ID: MBLK	SampType: MBLK	TestCode: A_TCN_S_AT	Units: mg/L	Prep Date:	Run ID: AUTOANALYZER 1_040
Client ID: ZZZZZ	Batch ID: R50677	TestNo: SW9012A		Analysis Date: 4/26/04	SeqNo: 745361
Analyte					
Cyanide	Result	PQL	SPK value	SPK Ref Val	%REC
	< 0.007	0.007			
Analyte					
Cyanide	0.108	0.007	0.1	0	108
				85	115
				0	0
Analyte					
Cyanide	0.086	0.007	0.1	0	86
				85	115
				0	0
Analyte					
Cyanide	0.085	0.007	0.1	0	85
				85	115
				0.086	0.086
				1.17	1.17
				15	15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: MB-19980	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040428A
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 4/28/04	SeqNo: 745818
Analyte					
Lead	7421	Result	PQL	SPK value	SPK Ref Val
				%REC	LowLimit
				HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual
Antimony	7041	< 0.005	0.005	0.005	0
Arsenic	7060A	< 0.003	0.003	0.003	0
Selenium	7740	< 0.006	0.006	0.006	0
Sample ID: LCS-19980	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040428A
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 4/28/04	SeqNo: 745817
Analyte					
Lead	7421	Result	PQL	SPK value	SPK Ref Val
				%REC	LowLimit
				HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual
Sample ID: LCS-19980	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040503A
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/3/04	SeqNo: 747844
Analyte					

Qualifiers:
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CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: LCS-19980	SampType: LCS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA-2_040503A		
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 5/3/04			SeqNo: 747844		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Antimony	7041	0.027	0.005	0.03	0	90	85	115	0	0
Sample ID: LCS-19980	SampType: LCS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA-2_040504A		
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 5/4/04			SeqNo: 748639		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Arsenic	7060A	0.015	0.003	0.015	0	100	85	115	0	0
Sample ID: LCS-19980	SampType: LCS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA_040504A		
Client ID: ZZZZZ	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 5/4/04			SeqNo: 749131		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Selenium	7740	0.032	0.006	0.03	0	107	85	115	0	0
Sample ID: 04040559-006BMS	SampType: MS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA-2_040428B		
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 4/28/04			SeqNo: 746119		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Lead	7421	0.017	0.004	0.015	0.003	93.3	70	130	0	0
Sample ID: 04040559-006BMS	SampType: MS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA-2_040503A		
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 5/3/04			SeqNo: 747854		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Antimony	7041	0.031	0.005	0.03	0	103	70	130	0	0
Sample ID: 04040559-006BMS	SampType: MS	TestCode: M_AQ_GF_ST		Units: mg/L		Prep Date: 4/27/04		Run ID: GFAA-2_040504A		
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G			Analysis Date: 5/4/04			SeqNo: 748641		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

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CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: 04040559-006BMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040504A
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/4/04	SeqNo: 748641
Analyte					
Arsenic	7060A	Result	PQL	SPK value	SPK Ref Val
		0:017	0.003	0.015	0.001
			107	70	130
			0	0	0
Sample ID: 04040559-006BMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA_040504A
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/4/04	SeqNo: 749117
Analyte					
Selenium	7740	Result	PQL	SPK value	SPK Ref Val
		0.032	0.006	0.03	0
			107	70	130
			0	0	0
Sample ID: 04040559-006BMSD	SampType: MSD	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040428B
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 4/28/04	SeqNo: 746132
Analyte					
Lead	7421	Result	PQL	SPK value	SPK Ref Val
		0.017	0.004	0.015	0.003
			93.3	70	130
			0.017	0	15
Sample ID: 04040559-006BMSD	SampType: MSD	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040503A
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/3/04	SeqNo: 747855
Analyte					
Antimony	7041	Result	PQL	SPK value	SPK Ref Val
		0.031	0.005	0.03	0
			103	70	130
			0.031	0	15
Sample ID: 04040559-006BMSD	SampType: MSD	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA-2_040504A
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/4/04	SeqNo: 748642
Analyte					
Arsenic	7060A	Result	PQL	SPK value	SPK Ref Val
		0.018	0.003	0.015	0.001
			113	70	130
			0.017	5.64	15
Sample ID: 04040559-006BMSD	SampType: MSD	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 4/27/04	Run ID: GFAA_040504A
Client ID: DUP-01/040422	Batch ID: 19980	TestNo: SW7000 G		Analysis Date: 5/4/04	SeqNo: 749118
Analyte					
		Result	PQL	SPK value	SPK Ref Val
			%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD	RPDLimit
			Qual		

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CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID:	04040559-006BMSD	SampType:	MSD	TestCode:	M_AQ_GF_ST	Units:	mg/L	Prep Date:	4/27/04	Run ID:	GFAA_040504A									
Client ID:	DUP-01/040422	Batch ID:	19980	TestNo:	SW7000 G			Analysis Date:	5/4/04	SeqNo:	749118									
Analyte																				
Selenium	7740	Result	0.029	PQL	0.006	SPK value	0.03	%REC	96.7	LowLimit	70	HighLimit	130	RPD Ref Val	0.032	%RPD	9.91	RPDLimit	15	Qual

Qualifiers:
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B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: MB-19950	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 4/23/04	Run ID: ICP_040428D						
Client ID: ZZZZZ	Batch ID: 19950	TestNo: SW6010B		Analysis Date: 4/28/04	SeqNo: 746077						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	< 0.005	0.005	0.005	0	0	-100	100	0	0	0	
Beryllium	< 0.001	0.001	0.001	0	0	-100	100	0	0	0	
Cadmium	< 0.002	0.002	0.002	0	0	-100	100	0	0	0	
Chromium	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Cobalt	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Nickel	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Silver	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Vanadium	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Zinc	< 0.010	0.010	0.01	0	0	-100	100	0	0	0	
Sample ID: LCS-19950	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 4/23/04	Run ID: ICP_040428D						
Client ID: ZZZZZ	Batch ID: 19950	TestNo: SW6010B		Analysis Date: 4/28/04	SeqNo: 746076						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.16	0.005	2	0	108	85	115	0	0	0	
Beryllium	0.053	0.001	0.05	0	106	85	115	0	0	0	
Cadmium	0.051	0.002	0.05	0	102	85	115	0	0	0	
Chromium	0.207	0.010	0.2	0	104	85	115	0	0	0	
Cobalt	0.526	0.010	0.5	0	105	85	115	0	0	0	
Nickel	0.54	0.010	0.5	0	108	85	115	0	0	0	
Silver	0.048	0.010	0.05	0	96	85	115	0	0	0	
Vanadium	0.536	0.010	0.5	0	107	85	115	0	0	0	
Zinc	0.516	0.010	0.5	0	103	85	115	0	0	0	
Sample ID: 04040559-001BMS	SampType: MS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 4/23/04	Run ID: ICP_040428D						
Client ID: HMW-25/040422	Batch ID: 19950	TestNo: SW6010B		Analysis Date: 4/28/04	SeqNo: 746082						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.2	0.005	2	0.238	98.1	75	125	0	0	0	
Beryllium	0.051	0.001	0.05	0	102	75	125	0	0	0	
Cadmium	0.049	0.002	0.05	0	98	75	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: 04040559-001BMS	SampType: MS	TestCode: M_AQ_ICP_ST		Units: mg/L		Prep Date: 4/23/04		Run ID: ICP_040428D			
Client ID: HMW-25/040422	Batch ID: 19950	TestNo: SW6010B			Analysis Date: 4/28/04			SeqNo: 746082			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.186	0.010	0.2	0	93	75	125	0	0		
Cobalt	0.482	0.010	0.5	0	96.4	75	125	0	0		
Nickel	0.493	0.010	0.5	0.013	96	75	125	0	0		
Silver	0.052	0.010	0.05	0	104	75	125	0	0		
Vanadium	0.509	0.010	0.5	0	102	75	125	0	0		
Zinc	0.736	0.010	0.5	0.241	99	75	125	0	0		

Sample ID: 04040559-001BMSD	SampType: MSD	TestCode: M_AQ_ICP_ST		Units: mg/L		Prep Date: 4/23/04		Run ID: ICP_040428D			
Client ID: HMW-25/040422	Batch ID: 19950	TestNo: SW6010B			Analysis Date: 4/28/04			SeqNo: 746083			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.25	0.005	2	0.238	101	75	125	2.2	2.25	15	
Beryllium	0.051	0.001	0.05	0	102	75	125	0.051	0	15	
Cadmium	0.048	0.002	0.05	0	96	75	125	0.049	2.05	15	
Chromium	0.185	0.010	0.2	0	92.5	75	125	0.186	0.539	15	
Cobalt	0.482	0.010	0.5	0	96.4	75	125	0.482	0	15	
Nickel	0.505	0.010	0.5	0.013	98.4	75	125	0.493	2.41	15	
Silver	0.052	0.010	0.05	0	104	75	125	0.052	0	15	
Vanadium	0.518	0.010	0.5	0	104	75	125	0.509	1.75	15	
Zinc	0.738	0.010	0.5	0.241	99.4	75	125	0.736	0.271	15	

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_S

Sample ID: MB-19971	SampType: MBLK	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 4/26/04	Run ID: CVAA_040427A
Client ID: ZZZZZ	Batch ID: 19971	TestNo: SW7470 A		Analysis Date: 4/27/04	SeqNo: 744911
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	< 0.0002	0.0002	0.0002	0	0
LowLimit	-100	HighLimit	100	RPD Ref Val	%RPD
				0	0
Sample ID: LCS-19971	SampType: LCS	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 4/26/04	Run ID: CVAA_040427A
Client ID: ZZZZZ	Batch ID: 19971	TestNo: SW7470 A		Analysis Date: 4/27/04	SeqNo: 744910
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.0054	0.0002	0.005	0	108
LowLimit	85	HighLimit	115	RPD Ref Val	%RPD
				0	0
Sample ID: 04040559-007BMS	SampType: MS	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 4/26/04	Run ID: CVAA_040427A
Client ID: EQB-01/040422	Batch ID: 19971	TestNo: SW7470 A		Analysis Date: 4/27/04	SeqNo: 744930
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.0049	0.0002	0.005	0	98
LowLimit	75	HighLimit	125	RPD Ref Val	%RPD
				0	0
Sample ID: 04040559-007BMSD	SampType: MSD	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 4/26/04	Run ID: CVAA_040427A
Client ID: EQB-01/040422	Batch ID: 19971	TestNo: SW7470 A		Analysis Date: 4/27/04	SeqNo: 744931
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC
	0.0051	0.0002	0.005	0	102
LowLimit	75	HighLimit	125	RPD Ref Val	%RPD
				0.0049	4.02
					15

Qualifiers:
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B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT
TestCode: SV_8270S_W

Sample ID: MB-19957	SampType: MBLK	TestCode: SV_8270S_W		Units: mg/L	Prep Date: 4/23/04		Run ID: 5972 INST. M_040423A				
Client ID: ZZZZZ	Batch ID: 19957	TestNo: SW8270C			Analysis Date: 4/23/04		SeqNo: 743520				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.010									
2,4-Dinitrophenol	ND	0.010									
4-Nitrophenol	ND	0.010									
Acenaphthene	ND	0.010									
Anthracene	ND	0.010									
Benzo(a)anthracene	ND	0.010									
Benzo(a)pyrene	ND	0.010									
Benzo(b)fluoranthene	ND	0.010									
Benzo(k)fluoranthene	ND	0.010									
Bis(2-ethylhexyl)phthalate	ND	0.006									
Chrysene	ND	0.010									
Di-n-butyl phthalate	ND	0.010									
Dibenzo(a,h)anthracene	ND	0.010									
Diethyl phthalate	ND	0.010									
Dimethyl phthalate	ND	0.010									
Fluoranthene	ND	0.010									
Fluorene	ND	0.010									
Indeno(1,2,3-cd)pyrene	ND	0.010									
m,p-Cresol	ND	0.010									
Naphthalene	ND	0.010									
o-Cresol	ND	0.010									
Phenanthrene	ND	0.010									
Phenol	ND	0.005									
Pyrene	ND	0.010									
Pyridine	ND	0.020									
Quinoline	ND	0.005									
Surr: 2,4,6-Tribromophenol	0.086	0	0.1	0	86	58.3	125	0	0		
Surr: 2-Fluorobiphenyl	0.042	0	0.05	0	84	54.4	99.9	0	0		
Surr: 2-Fluorophenol	0.045	0	0.1	0	45	37.4	64.4	0	0		
Surr: Nitrobenzene-d5	0.042	0	0.05	0	84	58.3	101	0	0		
Surr: p-Terphenyl-d14	0.043	0	0.05	0	86	69.6	113	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: MB-19957	SampType: MBLK	TestCode: SV_8270S_W	Units: mg/L	Prep Date: 4/23/04	Run ID: 5972 INST. M_040423A
Client ID: ZZZZZ	Batch ID: 19957	TestNo: SW8270C		Analysis Date: 4/23/04	SeqNo: 743520
Analyte					
Surr: Phenol-d5	Result	PQL	SPK value	SPK Ref Val	%REC
	0.035	0	0.1	0	35
					LowLimit
					HighLimit
					RPD Ref Val
					%RPD
					RPDLimit
					Qual
Sample ID: LCS-19957	SampType: LCS	TestCode: SV_8270S_W	Units: mg/L	Prep Date: 4/23/04	Run ID: 5972 INST. M_040423A
Client ID: ZZZZZ	Batch ID: 19957	TestNo: SW8270C		Analysis Date: 4/23/04	SeqNo: 743521
Analyte					
4-Nitrophenol	Result	PQL	SPK value	SPK Ref Val	%REC
	0.027	0.010	0.1	0	27
Acenaphthene					13.6
	0.045	0.010	0.05	0	47
Phenol					0
	0.03	0.005	0.1	0	0
Pyrene					17.1
	0.046	0.010	0.05	0	44.3
Surr: 2,4,6-Tribromophenol					0
	0.09	0	0.1	0	0
Surr: 2-Fluorobiphenyl					0
	0.044	0	0.05	0	0
Surr: 2-Fluorophenol					0
	0.047	0	0.1	0	0
Surr: Nitrobenzene-d5					30.8
	0.045	0	0.05	0	65.3
Surr: p-Terphenyl-d14					0
	0.048	0	0.05	0	0
Surr: Phenol-d5					0
	0.036	0	0.1	0	0
					36
					19.1
					46.4
					0
					0
Sample ID: LCSDUP-19957	SampType: LCSD	TestCode: SV_8270S_W	Units: mg/L	Prep Date: 4/23/04	Run ID: 5972 INST. M_040423A
Client ID: ZZZZZ	Batch ID: 19957	TestNo: SW8270C		Analysis Date: 4/23/04	SeqNo: 743522
Analyte					
4-Nitrophenol	Result	PQL	SPK value	SPK Ref Val	%REC
	0.028	0.010	0.1	0	28
Acenaphthene					13.6
	0.042	0.010	0.05	0	47
Phenol					0
	0.03	0.005	0.1	0	0
Pyrene					17.1
	0.044	0.010	0.05	0	44.3
Surr: 2,4,6-Tribromophenol					0
	0.084	0	0.1	0	0
Surr: 2-Fluorobiphenyl					0
	0.041	0	0.05	0	0
Surr: 2-Fluorophenol					0
	0.044	0	0.1	0	0
Surr: Nitrobenzene-d5					44
	0.042	0	0.05	0	30.8
Surr: p-Terphenyl-d14					65.3
	0.044	0	0.05	0	0
Surr: Phenol-d5					0
	0.033	0	0.1	0	0
					33
					19.1
					46.4
					0
					0
					15
					0
					15
					0
					15
					0
					15
					0
					15
					0
					15

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT
TestCode: SV_DIOXANE_W

Sample ID: MB-R50685	SampType: MBLK	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040427A						
Client ID: ZZZZZ	Batch ID: R50685	TestNo: SW8015		Analysis Date: 4/27/04	SeqNo: 745487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.50									
Sample ID: LCS-R50685	SampType: LCS	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040427A						
Client ID: ZZZZZ	Batch ID: R50685	TestNo: SW8015		Analysis Date: 4/27/04	SeqNo: 745486						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	51	0.50	50	0	102	80	120	0	0	0	
Sample ID: 04040559-001DMS	SampType: MS	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040427A						
Client ID: HMW-25/040422	Batch ID: R50685	TestNo: SW8015		Analysis Date: 4/27/04	SeqNo: 745476						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	50	0.50	50	0	100	80	120	0	0	0	
Sample ID: 04040559-001DMSD	SampType: MSD	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040427A						
Client ID: HMW-25/040422	Batch ID: R50685	TestNo: SW8015		Analysis Date: 4/27/04	SeqNo: 745477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	51	0.50	50	0	102	80	120	50	1.98	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
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CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: MBLK-A040426-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/26/04	Run ID: 5971 INST. A_040426D						
Client ID: ZZZZZ	Batch ID: 19989	TestNo: SW8260B		Analysis Date: 4/26/04	SeqNo: 744620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	25.0									
Benzene	ND	2.0									
Carbon disulfide	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroform	ND	5.0									
Ethylbenzene	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
Styrene	ND	5.0									
Tetrachloroethylene	ND	5.0									
Toluene	ND	5.0									
Trichloroethylene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	54.4	0	50	0	109	70	136	0	0		
Surr: 4-Bromofluorobenzene	49	0	50	0	98	72	125	0	0		
Surr: Dibromofluoromethane	53.5	0	50	0	107	67	138	0	0		
Surr: Toluene-d8	49.3	0	50	0	98.6	80	124	0	0		

Sample ID: MBLK-A040428-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/28/04	Run ID: 5971 INST. A_040428A						
Client ID: ZZZZZ	Batch ID: 20010	TestNo: SW8260B		Analysis Date: 4/28/04	SeqNo: 746098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dibromoethane	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: MBLK-A040428-1	SampType: MBLK	TestCode: V_8260S_W		Units: µg/L		Prep Date: 4/28/04		Run ID: 5971 INST. A_040428A			
Client ID: ZZZZZ	Batch ID: 20010	TestNo: SW8260B				Analysis Date: 4/28/04		SeqNo: 746098			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	25.0									
Benzene	ND	2.0									
Carbon disulfide	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroform	ND	5.0									
Ethylbenzene	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
Trichloroethene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	54.3	0	50	0	109	70	136	0	0		
Surr: 4-Bromofluorobenzene	47.9	0	50	0	95.8	72	125	0	0		
Surr: Dibromofluoromethane	54.1	0	50	0	108	67	138	0	0		
Surr: Toluene-d8	49.3	0	50	0	98.6	80	124	0	0		

Sample ID: LCS-A040426-1	SampType: LCS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 4/26/04		Run ID: 5971 INST. A_040426D			
Client ID: ZZZZZ	Batch ID: 19989	TestNo: SW8260B				Analysis Date: 4/26/04		SeqNo: 744621			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	54.4	5.0	50	0	109	70	130	0	0		
1,2-Dichlorobenzene	50.8	5.0	50	0	102	70	130	0	0		
1,2-Dichloroethane	55.3	5.0	50	0	111	70	130	0	0		
1,3-Dichlorobenzene	50.8	5.0	50	0	102	70	130	0	0		
1,4-Dichlorobenzene	50.6	5.0	50	0	101	70	130	0	0		
2-Butanone	54.8	25.0	50	0	110	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: LCS-A040426-1	SampType: LCS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/26/04	Run ID: 5971 INST. A_040426D
Client ID: ZZZZZ	Batch ID: 19989	TestNo: SW8260B		Analysis Date: 4/26/04	SeqNo: 744621
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.6	2.0	50	0	95.2	70	130	0	0	0	
Chlorobenzene	51.9	5.0	50	0	104	70	130	0	0	0	
Chloroform	54.7	5.0	50	0	109	70	130	0	0	0	
Ethylbenzene	50.9	5.0	50	0	102	70	130	0	0	0	
Tetrachloroethene	47.9	5.0	50	0	95.8	70	130	0	0	0	
Toluene	50.1	5.0	50	0	100	70	130	0	0	0	
Trichloroethene	50.4	5.0	50	0	101	70	130	0	0	0	
Xylenes, Total	104	5.0	100	0	104	70	130	0	0	0	
Surr: 1,2-Dichloroethane-d4	57.2	0	50	0	114	70	136	0	0	0	
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	72	125	0	0	0	
Surr: Dibromofluoromethane	54.8	0	50	0	110	67	138	0	0	0	
Surr: Toluene-d8	48.9	0	50	0	97.8	80	124	0	0	0	

Sample ID: LCS-A040428-1	SampType: LCS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/28/04	Run ID: 5971 INST. A_040428A
Client ID: ZZZZZ	Batch ID: 20010	TestNo: SW8260B		Analysis Date: 4/28/04	SeqNo: 746097
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	56.5	5.0	50	0	113	70	130	0	0	0	
1,2-Dichlorobenzene	54.8	5.0	50	0	110	70	130	0	0	0	
1,2-Dichloroethane	57.6	5.0	50	0	115	70	130	0	0	0	
1,3-Dichlorobenzene	55.2	5.0	50	0	110	70	130	0	0	0	
1,4-Dichlorobenzene	54.6	5.0	50	0	109	70	130	0	0	0	
2-Butanone	51.4	25.0	50	0	103	70	130	0	0	0	
Benzene	55	2.0	50	0	110	70	130	0	0	0	
Chlorobenzene	53.5	5.0	50	0	107	70	130	0	0	0	
Chloroform	57.4	5.0	50	0	115	70	130	0	0	0	
Ethylbenzene	52.6	5.0	50	0	105	70	130	0	0	0	
Tetrachloroethene	48.8	5.0	50	0	97.6	70	130	0	0	0	
Toluene	55.1	5.0	50	0	110	70	130	0	0	0	
Trichloroethene	55.9	5.0	50	0	112	70	130	0	0	0	
Xylenes, Total	105	5.0	100	0	105	70	130	0	0	0	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: LCS-A040428-1	SampType: LCS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 4/28/04		Run ID: 5971 INST. A_040428A			
Client ID: ZZZZZ	Batch ID: 20010	TestNo: SW8260B				Analysis Date: 4/28/04		SeqNo: 746097			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sur: 1,2-Dichloroethane-d4	53.9	0	50	0	108	70	136	0	0	0	
Sur: 4-Bromofluorobenzene	49.4	0	50	0	98.8	72	125	0	0	0	
Sur: Dibromofluoromethane	53.1	0	50	0	106	67	138	0	0	0	
Sur: Toluene-d8	49.6	0	50	0	99.2	80	124	0	0	0	
Sample ID: 04040559-004EMS	SampType: MS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 4/26/04		Run ID: 5971 INST. A_040426D			
Client ID: HMW-28/040422	Batch ID: 19989	TestNo: SW8260B				Analysis Date: 4/26/04		SeqNo: 744628			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	58.3	2.0	56	0	104	70	130	0	0	0	
Chlorobenzene	54.8	5.0	56	0	97.9	70	130	0	0	0	
Ethylbenzene	53	5.0	56	0	94.6	70	130	0	0	0	
Toluene	55.5	5.0	56	0	99.1	70	130	0	0	0	
Trichloroethene	57.6	5.0	56	0	103	70	130	0	0	0	
Xylenes, Total	109	5.0	112	0	97.3	70	130	0	0	0	
Sur: 1,2-Dichloroethane-d4	60.4	0	50	0	121	70	136	0	0	0	
Sur: 4-Bromofluorobenzene	51.8	0	50	0	104	72	125	0	0	0	
Sur: Dibromofluoromethane	55.7	0	50	0	111	67	138	0	0	0	
Sur: Toluene-d8	49	0	50	0	98	80	124	0	0	0	
Sample ID: 04040559-005EMS	SampType: MS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 4/28/04		Run ID: 5971 INST. A_040428A			
Client ID: HMW-29/040422	Batch ID: 20010	TestNo: SW8260B				Analysis Date: 4/28/04		SeqNo: 746101			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57	2.0	56	0	102	70	130	0	0	0	
Chlorobenzene	50.4	5.0	56	0	90	70	130	0	0	0	
Ethylbenzene	48.6	5.0	56	0	86.8	70	130	0	0	0	
Toluene	53.1	5.0	56	0	94.8	70	130	0	0	0	
Trichloroethene	55.6	5.0	56	0	99.3	70	130	0	0	0	
Xylenes, Total	97.7	5.0	112	0	87.2	70	130	0	0	0	
Sur: 1,2-Dichloroethane-d4	59.4	0	50	0	119	70	136	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: 04040559-005EMS	SampType: MS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/28/04	Run ID: 5971 INST. A_040428A						
Client ID: HMW-29/040422	Batch ID: 20010	TestNo: SW8260B		Analysis Date: 4/28/04	SeqNo: 746101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	49.8	0	50	0	99.6	72	125	0	0	0	
Surr: Dibromofluoromethane	56.1	0	50	0	112	67	138	0	0	0	
Surr: Toluene-d8	49.8	0	50	0	99.6	80	124	0	0	0	

Sample ID: 04040559-004EMSD	SampType: MSD	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/26/04	Run ID: 5971 INST. A_040426D						
Client ID: HMW-28/040422	Batch ID: 19989	TestNo: SW8260B		Analysis Date: 4/26/04	SeqNo: 744629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	60.1	2.0	56	0	107	70	130	58.3	3.04	15	
Chlorobenzene	56.7	5.0	56	0	101	70	130	54.8	3.41	15	
Ethylbenzene	55.7	5.0	56	0	99.5	70	130	53	4.97	15	
Toluene	58.2	5.0	56	0	104	70	130	55.5	4.75	15	
Trichloroethene	60	5.0	56	0	107	70	130	57.6	4.08	15	
Xylenes, Total	114	5.0	112	0	102	70	130	109	4.48	15	
Surr: 1,2-Dichloroethane-d4	58.7	0	50	0	117	70	136	0	0	0	
Surr: 4-Bromofluorobenzene	51.3	0	50	0	103	72	125	0	0	0	
Surr: Dibromofluoromethane	55.3	0	50	0	111	67	138	0	0	0	
Surr: Toluene-d8	49.8	0	50	0	99.6	80	124	0	0	0	

Sample ID: 04040559-005EMSD	SampType: MSD	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/28/04	Run ID: 5971 INST. A_040428A						
Client ID: HMW-29/040422	Batch ID: 20010	TestNo: SW8260B		Analysis Date: 4/28/04	SeqNo: 746102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.5	2.0	56	0	103	70	130	57	0.873	15	
Chlorobenzene	52.5	5.0	56	0	93.8	70	130	50.4	4.08	15	
Ethylbenzene	50.7	5.0	56	0	90.5	70	130	48.6	4.23	15	
Toluene	54.2	5.0	56	0	96.8	70	130	53.1	2.05	15	
Trichloroethene	57.4	5.0	56	0	103	70	130	55.6	3.18	15	
Xylenes, Total	104	5.0	112	0	92.9	70	130	97.7	6.26	15	
Surr: 1,2-Dichloroethane-d4	60.2	0	50	0	120	70	136	0	0	0	
Surr: 4-Bromofluorobenzene	49.8	0	50	0	99.6	72	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04040559
Project: Hartford Working Group 15-03095.15-004

ANALYTICAL QC SUMMARY REPORT
TestCode: V_8260S_W

Sample ID: 04040559-005EMSD	SampType: MSD	TestCode: V_8260S_W	Units: µg/L	Prep Date: 4/28/04	Run ID: 5971 INST. A_040428A
Client ID: HMW-29/040422	Batch ID: 20010	TestNo: SW8260B		Analysis Date: 4/28/04	SeqNo: 746102
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC
Surr: Dibromofluoromethane	56.3	0	50	0	113
Surr: Toluene-d8	49.4	0	50	0	98.8
				LowLimit	HighLimit
				67	138
				80	124
				RPD Ref Val	%RPD
				0	0
					RPDLimit
					0
					Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 40559

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Clayton Group Services
 Address: 3140 Finley RD
 City / State / Zip: Downers Grove, IL 60540-6055
 Contact: Ken Comire Phone: (630) 795-3200
 E-Mail: kcomire@claytongrp.com Fax: (630) 795-1130

Are the samples chilled? NO YES (Ice or Blue Ice)
 Cooler Temperature: 4.8 °C NaOH Added to Hmw - 26, 27, & Dup 01
 NH₃ added to Hmw - 29
 Preserved in: Lab Field 4/23/04 ✓
 Comments: Headspace EAW 4/23/04
 * per Ken Comire and attached list EAW 4/23/04
 * 4/19/04 1405 per containers EAW 4/23/04

Project Name / Number Hartford Working Group 15-03095.15-004		Sample Collector's Name D. Bolivar		MATRIX						INDICATE ANALYSIS REQUESTED											
Requested Due Date Standard	Billing Instructions PO# 15-03095.15-004	# and Type of Containers						Water	Drinking Water	Soil	Sludge	Sp. Waste	VOC's	TDS	1,4-Dioxane	Metals	PCBs	Be, Cd, Cr	Hg, Pb, Zn	Cu, Cd, Cr, Ni, Pb, Zn	Silicates
		UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCl	MeOH	NaHSO ₄	Other												
04040559-001	Hmw-25/040422	4/22/04	1210	2	1	1	2		X				X	X	X	X	Be, Cd, Cr	Hg, Pb, Zn	Cu, Cd, Cr, Ni, Pb, Zn	Silicates	
	002	Hmw-26/040422	4/22/04	1430	2	1	1	2		X			X	X	X	X					
	003	Hmw-27/040422	4/22/04	1535	2	1	1	2		X			X	X	X	X					
	004	Hmw-28/040422	4/22/04	1645	2	1	1	2		X			X	X	X	X					
	005	Hmw-29/040422	4/22/04	1755	2	1	1	2		X			X	X	X	X					
	006	Dup-01/040422	4/22/04	NA	2	1	1	2		X			X	X	X	X					
	007	EQB-01/040422	4/22/04	1820	2	1	1	2		X			X	X	X	X					
	008	Trip-01/040422	4/22/04	M*					2	X			X	X	X	X					



EMAILED

3-5-04

Relinquished By Paul Mandyuf Drew Bolivar	Date / Time 4/22/04 08:23 4/23/04 4/23/04	Received By Jen Rasmussen	Date / Time 4/22/04 08:23 4/23/04 4/23/04

TEKLAB, INC

Sample Receipt Checklist

Client Name CLAYTON GROUP Date and Time Receive 4/23/04 8:23:00 AM
Work Order Number 04040559 Received by: JLR

Checklist completed by Elizabeth A. Weber 4/23/04 Reviewed by _____
(Signature) Date Initials _____ Date _____

Matrix: Carrier name: Employee

- | | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |

Adjusted? Yes Checked by JR

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____